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TECH CENTER HONDON USE OF [DOCOSAHEXANOIC] DOCOSAHEXAENOIC ACID AND ARACHIDONIC ACID ENHANCING THE GROWTH OF PRETERM **INFANTS**

FIELD OF INVENTION

The present invention concerns enhancing the growth of preterm infants involving administration of infant formula containing a combination of docosahexaenoic and arachidonic acid.

BACKGROUND OF THE INVENTION

The long chain polyunsaturated fatty acids (LC PUFA) have been shown to be important in infant development. Particularly, arachidonic acid (ARA) and docosahexaenoic acid (DHA) are LC PUFA that are of special interest in infant nutrition because they are found in high concentrations in the brain (Sastry PS, Lipids of nervous tissue: composition and metabolism. Progress Lipid Res 1985;24:69-176) and the retina (Fliesler SJ and Anderson RE. Chemistry and metabolism of lipids in the vertebrate retina. Progress Lipid Res 1983;22:79-131). ARA (20:4n-6) and DHA (22:6n-3) are derived from the parent essential fatty acids linoleic acid (18:2n-6) and α-linolenic acid (18:3n-3) through alternate desaturation and elongation and accumulate rapidly in fetal neural tissue during the last months of gestation and the first months of postnatal life (Makrides M, Neuman MA, Byard RW, Simmer K, Gibson RA. Fatty composition of the brain, retina and erythrocytes in breast- and formula-fed infants. Am J Clin Nutr 1994;60:189-94).

Unlike term infants, preterm infants do not fully benefit from the maternal and placental LC PUFA supply during the last trimester of pregnancy. Even though preterm infants are capable of synthesizing both DHA and ARA from their 18 carbon precursors (Carnielli VP, Wattimena DJL, Luijendijk IHT, Boerlage A, Degenhart HJ, Sauer PJJ. The very low birth weight premature infant is capable of synthesizing arachidonic and docosahexaenoic acids from linoleic and linolenic acids. Pediat Res

1996;40:169-174), it remains unclear whether the rate of synthesis is adequate to meet the optimal needs for central nervous system accretion in the absence of a dietary supply of these fatty acids. Preterm infants are dependent on their own dietary supply of linoleic and α-linolenic acids through either human milk, which also contains small but significant amounts of ARA and DHA or through commercially available artificial formulas, none of which in the United States contain ARA end DHA.

It has been demonstrated in recent studies (Hoffman DR and Uauy R. Essentiality of dietary ω -3 fatty acids for premature infants: Plasma and red blood cell fatty acid composition. Lipids 1992;27:886-95) that the fatty acid composition of red blood cell membrane lipids in infants receiving formulas supplemented with DHA (0.35% of total fatty acids) was similar to human milk-fed infants. In the same study, Birch (Birch DG, Birch EE, Hoffman DR Uauy RD. Retinal development in very-low-birth-weight infants fed diets differing in Omega-3 fatty acids. Investigation Ophthalmology Visual Science 1992;33:2365-76) found that retinal function improved with the provision of a dietary supply of DHA in very low birth weight infants.

The first year growth of preterm infants fed standard formula compared to marine oil LC PUFA supplemented formula was studied by Carlson et al. (Carlson SE, Cooke, RJ, Werkman SH, Tolley EA. First year growth of preterm infants fed standard compared to marine oil n-3 supplemented formula Lipids 1992:27:901-907). The experimental formulas provided 0.2% of total fatty acids as DHA and also provided 0.3% as EPA (20:5n-3). This EPA concentration is higher than found in human milk while the DHA level is similar to human milk. Beginning at 40 weeks from conception, marine oil supplemented infants compared to controls had significantly lower weight, length, and head circumference. From this study, Carlson (Carlson SE, Werkman SH, Peeles JM, Cooke RJ, Tolley EA. Arachidonic acid status correlates with first year growth in

preterm infants. Proc Natl Acad Sci USA 1993;90:1073-77) hypothesized that dietary ARA could improve first year growth of preterm infants, in the context of restoring growth to the level of control formula containing no LC PUFA.

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In another study (Montalto, FB, et al., Pediatric Research, Vol 39, page 316A, abstract no. 1878) it was shown that male infants fed marine oil supplemented formula (containing DHA but essentially no ARA) had, by 4 to 6 months, lower head circumference, length, weight and fat free mass than standard formula fed infants. A third study also showed decreased weight at 9 and 12 months corrected age in preterm infants fed marine oil supplemented formula (with LC PUFA) to 2 months corrected age compared with control formula containing no LC PUFA (Carlson SE, et al., Am. J. Clin. Nutr., 63 pp 687-97, 1996).

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The prior art has demonstrated that infants with altered tissue LC PUFA levels, resulting from a lack of LC PUFA in their diets, may be at risk for neurological problems, may also have reduced scores on cognitive tests, and may have lower retinal development than human milk-fed infants. Worldwide regulatory organizations such as the WHO/FAO Expert Committee on Fats and Oils in Human Nutrition have recommended that LC PUFA be included in preterm infant formula. These recommendations have been made despite the negative effects observed of DHA supplements on growth. There has been no demonstration in the literature that ARA and DHA, particularly when added to infant formula, enhances the growth of infants above that demonstrated by control formulas not containing ARA and DHA.

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SUMMARY OF THE INVENTION

It has unexpectedly been discovered that preterm infants receiving infant formula supplemented with both DHA and ARA demonstrate enhanced growth. The present invention is directed to enhancing the growth of preterm infants comprising administering to said infants a growth

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enhancing amount of DHA and ARA.

DETAILED DESCRIPTION OF THE INVENTION

As reported in a review of preterm infant growth by Carlson, SE, (The Jrnl of Pediatrics, vol 125, pp 533-8, 1994) "After adjusting for postconceptional age, preterm infants show a decline (rather than a catch-up) in the normalized weight from approximately 2 to 4 months past expected term."

Several prior art studies have documented the value of administering DHA to infants. However, when DHA, either as the primary LC PUFA or combined with EPA, is administered to preterm infants, said infants suffer from decreased growth. It has been suggested that ARA may be beneficial to growth; however, heretofore the growth effects of administering both DHA and ARA to preterm infants have been unknown. It has been surprisingly discovered that administering the combination of ARA and DHA results in enhanced growth of infants relative to infants fed DHA alone. It has also been discovered that preterm infants administered an infant formula containing ARA and DHA exhibit enhanced growth relative to preterm infants fed control formula without DHA and ARA, such as those formulas currently used in modern nurseries. It has further been discovered that practice of the method of the invention results in growth of preterm infants catching up in an unexpected short time to a reference group of normal term breast fed infants.

The time to achieve growth similar or equivalent to normal term breast fed infants by practice of the method of the invention is less than 9 months corrected age; preferably less than 6 months corrected age, more preferably less than 4 months corrected age, even more preferably less than 2 months corrected age, and most preferably no greater than term corrected age.

The method of the invention requires a combination of DHA and ARA. The weight ratio weight of ARA:DHA can be about 1:2 to about 5:1,

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preferably about 1:1 to about 3:1, and more preferably about 2:1.

In the method of the invention the combination of DHA and ARA is preferably administered as part of an infant formula. The infant formula for use in the present invention is preferably nutritionally complete and typically contains suitable types and amounts of lipid, carbohydrate, protein, vitamins and minerals. The amount of lipid or fat typically can vary from about 3 to about 7 g/100 kcal. The amount of protein typically can vary from about 1 to about 5 g/100 kcal. The amount of carbohydrate typically can vary from about 8 to about 12 g/100 kcal. Protein sources can be any used in the art, e.g., nonfat milk, whey protein, casein, soy protein, hydrolyzed protein, amino acids, and the like. Carbohydrate sources can be any used in the art, e.g., lactose, glucose, corn syrup solids, maltodextrins, sucrose, starch, rice syrup solids, and the like. Lipid sources can be any used in the art, e.g., vegetable oils such as palm oil, soybean oil, palmolein, coconut oil, medium chain triglyceride oil, high oleic sunflower oil, high oleic safflower oil, and the like. Conveniently, commercially available infant formula can be used. For example, Enfamil®, Enfamil® Premature Formula, Enfamil® with Iron, Lactofree®, Nutramigen®, Pregestimil®, ProSobee® (available from Mead Johnson & Company, Evansville, Indiana, U.S.A.), Similac®, Isomil®, Alimentum®, Neocare®, and Similac® Special Care (available from Ross Laboratories, Columbus, Ohio, U.S.A.), may be supplemented with suitable levels of ARA and DHA at the proper ratios and used in practice of the method of the invention.

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The form of administration of the DHA and ARA in the method of the invention is not critical, as long as a growth enhancing amount is administered. Most conveniently, the DHA and ARA are supplemented into infant formula which is then fed to the infants. Alternatively, the DHA and ARA can be administered as a supplement not integral to the formula feeding, for example, as oil drops, sachets, in combination with other

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nutrient supplements such as vitamins, and the like.

The growth enhancing amount of DHA is typically about 2.5 mg/kg of body weight/day to about 60 mg/kg of body weight/day, preferably about 6 mg/kg of body weight/day to about 40 mg/kg of body weight/day, more preferably about 12 mg/kg body weight/day to about 30 mg/kg body weight/day, and even more preferably about 18 mg/kg of body weight/day to about 24 mg/kg of body weight/day.

The growth enhancing amount of ARA is typically about 5 mg/kg of body weight/day to about 120 mg/kg of body weight/day, preferably about 12 mg/kg of body weight/day to about 80 mg/kg of body weight/day, more preferably about 24 mg/kg body weight/day to about 60 mg/kg body weight/day, and even more preferably about 36 mg/kg of body weight/day to about 48 mg/kg body weight/day.

The amount of DHA in infant formulas for use in the present invention typically varies from about 2 mg/100 kilocalories (kcal) to about 50 mg/100 kcal, preferably about 5 mg/100 kcal to about 33 mg/100 kcal, more preferably about 10 mg/100 kcal to about 25 mg/100 kcal, and even more preferably about 15 mg/100 kcal to about 20 mg/100 kcal.

The amount of ARA in infant formula for use in the present invention typically varies from about 4 mg/100 kcal to about 100 mg/100 kcal, preferably about 10 mg/100 kcal to about 67 mg/100 kcal, more preferably about 20 mg/100 kcal to about 50 mg/100 kcal, and even more preferably about 30 mg/100 kcal to about 40 mg/100 kcal.

The infant formula supplemented with oils containing DHA and ARA for use in the present invention can be made using standard techniques known in the art. For example, replacing an equivalent amount of an oil normally present, e. g., high oleic sunflower oil.

The source of the ARA and DHA can be any source known in the art such as fish oil, single cell oil, egg yolk lipid, brain lipid, and the like.

The DHA and ARA can be in natural form, provided that the remainder of

the LC PUFA source does not result in any substantial deleterious effect on the infant. Alternatively, the DHA and ARA can be used in refined form. It is preferred that the LC PUFA used in the invention contain little or no EPA. For example, it is preferred that the infant formulas used herein contain less than about [10 mg/100 kcal] 20 mg/100 kcal EPA; preferably less than about 10 mg/100 kcal EPA; more preferably less than about 5 mg/100 kcal EPA; and most preferably substantially no EPA.

Preferred sources of DHA and ARA are single cell oils as taught in U.S. patent nos. 5,374,657, 5,550,156, and 5,397,591, the disclosures of which are incorporated herein by reference in their entirety.

The following examples are to illustrate the invention but should not be interpreted as a limitation thereon.

EXAMPLES

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CLINICAL STUDY DESIGN

1. INTRODUCTION

This study is a double-blind, randomized, controlled parallel design, prospective trial of premature infant formulas containing microalgae and fungi-derived oils which contain a part of their constituents arachidonic acid and docosahexaenoic acid. Formula feeding subjects will be randomized into one of 3 feeding groups:

- premature formula plus DHA (about 0.13% of energy)
 and ARA (about 0.26% of energy)
- premature formula plus DHA (about 0.13% of energy)
- premature formula WITHOUT DHA and ARA

The products have the same nutrient composition (see Appendix A) and differ only in the level of DHA and ARA. The products will be blinded. The present order of formula has no relationship to randomization.

Normal, term, breast fed infants will be enrolled to provide a normal visual acuity reference.

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Fifty evaluable subjects will be completed in each group. Premature infants will remain on study formulas after reaching 90 kcal/kg/d for a minimum of 28 days or until hospital discharge whichever is longer. After 28 days or discharge, whichever is longer, all premature infants will receive Enfamil or Enfalac with Iron. If medically indicated, ProSobee, Lactofree, Alactamil, Nutramigen, or Pregestimil may be used in place of Enfamil or Enfalac with Iron. Term infants will receive at least 85% of their nutrition from breast milk. Primary measures of effectiveness will include visual acuity and red blood cell membrane fatty acid profiles (i.e. DHA and ARA levels). The measure of safety will be growth and adverse experience reports.

2. SUBJECTS

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2.1 SOURCE AND CHARACTERIZATION OF STUDY GROUP

Acceptable preterm subjects will be relatively healthy premature infants taking preterm formula. Anticipated hospitalization should be sufficient to allow for 28 days of enteral intake \geq 90 kcal/kg/d and \geq 85% study formula intake. All races and both sexes will be eligible for the study.

2.2. INCLUSION CRITERIA

20 Preterm infants:

- Birth weight ≥ 900 g
- Formula feeding at time of study enrollment
- Anticipate enteral intake of ≥90 kcal/kg/day for ≥ 28 days before discharge home
- Informed consent obtained

Term Infants:

- 38 to 42 weeks gestation
- Committed to breast feeding
- Informed Consent obtained

30 2.3 EXCLUSION CRITERIA

Preterm infants:

• ≥ 1500 g at birth

Preterm and Term Infants:

- History of underlying disease or congenital malformation which in the opinion of the investigator is likely to interfere with the evaluation of the subject
- More than 24 days between birth and full oral feeds (≥ 90 kcal/kg/d)
- Small (<10th percentile) for gestational age at birth (SGA)
- Necrotizing enterocolitis as diagnosed by the physician
- Other gastrointestinal disease
- Impaired visual or ocular status at birth

2.4 CONCOMITANT MEDICATIONS, HOSPITALIZATIONS,

ILLNESSES

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- No medication which may affect FPL response may be used within 3 days of measurement.
- No evidence of viral of bacterial infection during FPL testing.
- No medications known to [effect] <u>affect</u> lipid metabolism (e.g., heparin at therapeutic levels)

20 3. STUDY PRODUCT INFORMATION

3.1 FORMULATIONS

Nutrient composition is included as Appendix A.

4. STUDY PROCEDURES

4.2.1 ENROLLMENT

Enrollment will take place over a 6 month period. Ideally, sufficient subjects will be enrolled so that 10 subjects in each group complete the study at each site for the multi-center trial. A total of 50 infants per formula group will complete this trial.

4.2.2 SCHEDULE OF EVENTS (SEE FLOW CHART, SECTION

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4.2.2.1 RECRUITMENT

Mothers of eligible, healthy, preterm formula fed infants and term, breastfed infants will be contacted, the study explained to them, and if they are agreeable, written informed consent obtained.

Term infants may be enrolled anytime from birth until or during the 48 week visit.

4.2.2.2 RANDOMIZATION

Recruited formula fed subjects will be randomized into study groups. Randomization can occur anytime after enteral feeds reach 50 kcal/kg/day until commencement of full enteral feeds (i.e., ≥90 kcal/kg/day).

4.2.2.3 **FEEDING**

All premature infants will receive their assigned study formula after informed consent has been granted and enteral feeds are at least 50 kcal/kg/day. The infant will remain on study formula 28 days after reaching 90 kcal/kg/d or until hospital discharge, whichever is longer. Oral feeding amount, strength and rate will advance as appropriate for the clinical management of the infant.

All parents will be instructed not to feed solid foods during the study. The parents will be instructed that the study formula or breast milk is to serve as the sole source of food from enrollment to study end.

4.2.2.4 BASELINE DATA COLLECTION

The following data will be collected by the Investigator at the time of enrollment and randomization on the case report forms:

- Informed consent of parent obtained.
- Post conceptual age.
- That the subject is a premature infant, with Birth weight
 ≥900 gm and ≥1500 gm or a normal term infant between
 38 and 42 weeks gestational age.
 - That the preterm subject is receiving infant formula or

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term infant is committed to breast feeding. Anticipated preterm infant enteral intake of ≥90 kcal/kg/day for ≥28 days prior to discharge home. That the subject has no history of underlying disease, inborn error of metabolism, or congenital malformation 5 which in the opinion of the Investigator is likely to interfere with the evaluation of the study formulas. That the subject is not small (<10th percentile) for gestational age at birth. 10 That the subject does not have necrotizing enterocolitis as diagnosed by a physician. That the subject does not have a gastrointestinal disease. No more than 24 days between birth and full enteral 15 feeds (i.e., ≥90 kcal/kg/day). That the subject did not have impaired visual or ocular status at birth. Birth date, sex, race. Birth weight, length and head circumference 20 4.2.2.5 INVESTIGATOR PERIODIC DATA COLLECTION "During hospitalization, preterm subjects will have their weight recorded daily while they are receiving study formula. Length and head circumference will be recorded weekly, along with an additional weight measurement. For a given subject, the same scale should be used for the weekly 25 weight measurement."

recorded at the 40, 48, and 57 week post conceptual age

"Weight, length, and head circumference will also be

visit (preterm) and 56 and 119 days of age visit (term)."

30 4.2.2.6 **BLOOD DRAW** 5

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When preterm infant enrolls in the study and again at termination of study formula (i.e., hospital discharge or 28 days after reaching 90 kcal/kg/d of study product), the Investigator will ascertain that the infant is essentially solely formula fed. If this criteria is met, 1.2 ml/blood will be drawn for blood lipids. The sample will be processed as described in Appendix B.

An attempt will also be made to draw a similar blood sample at the 48 weeks PCA visit when visual acuity is measured in both term and preterm infants.

4.2.2.7 VISUAL ACUITY BY FORCED CHOICE PREFERENTIAL LOOKING (FPL) AT 48 AND 57 WEEKS \pm 4 DAYS POST-CONCEPTUAL AGE

When the infant is 48 and 57 weeks \pm 4 days post-conceptual age, trained persons at each study site will follow the Teller Acuity Card Procedure for the measurement of visual acuity of all study subjects. It is essential that only persons who are trained in the FPL procedure for determining visual acuity do the testing. If necessary, training of responsible persons and documentation of completion of successful training will be done at Children's Hospital Medical Center Ophthalmology Department in Seattle, Washington, according to the procedure attached as Appendix C.

If the infant cannot complete the procedure at 48 or 57 weeks \pm 4 days postconceptual age (i.e., too fussy, too sleepy, too inattentive) the test should be repeated within 7 days.

4.2.2.8 INTERIM EVALUATION

At preterm infant hospital discharge or 28 days after reaching 90 kcal/kg/d of study formula feeding, whichever is longer, the [investigator] Investigator will fill out an "Interim Evaluation" form. After reviewing the subject's records and discussion with the parents and staff, the [investigator will indicate whether:] Investigator will indicate:

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- Whether or not the subject completed at least 28 days of study formula intake ≥ 90 kcal/kg/d and both blood samples obtained
- If the study was not completed, and reason
- Whether or not the subject received steroids (glucorticoids)
- Investigator's evaluation of the study formula

The first and last dates study material was taken will be recorded.

4.2.2.9 FINAL EVALUATION

At the final study visit (57 weeks postconceptual age) or earlier if the subject drops out, the Investigator will fill out a "Final Evaluation" Case Report Form. After reviewing the subject's records and discussion with the parents, the Investigator will indicate whether the subject:

- (1) Completed feeding regiment and all study parameters (i.e., anthropometrics and visual acuity measured).
 - (2) Did not complete feeding regimen.
 - (3) Not completed and reason.

4.3 CLINICAL OBSERVATIONS

4.3.1 PHYSICAL EXAMINATIONS

Subjects will have weight, length and head circumferences recorded at birth, weekly while hospitalized, then at 40, 48, and 57 weeks \pm 4 days postconceptual age.

Body weight will be measured using an electronic balance or a double beam balance accurate to 10 g or ½ oz with non-detachable weights. During hospitalization, if more than one such balance is employed in the practice, either one balance should be designated the study balance and all study weights will be carried out on that balance for a particular subject, or the balances will be checked and certified to register the same weight throughout the range of weights expected.

Outpatient weights will be obtained on a calibrated office scale.

Documentation indicating balance calibration of the outpatient balance carried out within 12 months of study initiation will be supplied to the Sponsor.

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Length will be measured with the infant in recumbent position with the help of two examiners and a suitable measuring apparatus. One person holds the subject's head in contact with a fixed vertical headboard and a second person holds the subject's feet, toes pointing directly upward and, also applying gentle traction. The baby is measured from the headboard to the soles of the feet with a non-stretching tape measure.

Head circumference will be measured, employing a flexible, non-stretchable cloth or vinyl tape.

4.3.2 VISUAL ACUITY BY FORCED CHOICE PREFERENTIAL LOOKING (FPL)

Visual acuity will be determined at 48 and 57 weeks \pm 4 days postconceptual age according to procedures outlined in Appendix C.

4.3.3 LABORATORY TESTS

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Blood will be drawn from preterm infants by heel prick or venipuncture when study formula is begun and terminated. An attempt will be made to draw blood at 48 weeks \pm 4 days PCA from both term and preterm infants. Procedures for handling the blood are described in Appendix B.

4.4 FLOW CHART

			PRE	PRETERM				TERM	
EVENT	Birth	Enteral Intake >50 kcal/kg/d	Termination of Study Formula t	Visit 1 40 wks ± 4d PCA	Visit 2 46 wks ± 4d PCA	Visit 3 57 wke ± 4d PCA	· Visit 1 40 wks ± 44 PCA	Visit 2 48 wks ± 4d PCA	Visit 3 57 wks ±
Randomization	; n -	^							
Study Formula		>							
Enfamil w/iron	in period		^	>	>	>			
Human Milk							>	>	>
			Phy	Physical				Physical	
Weight	· >	*>	>	>	>	>	>	^	>
Lèngth	· >	*>	>	>	>	>	<i>></i>	>	
Head Circumference	>	*	>	>	>	>	>	>	>
Blood Draw		>	>		>			>	
Visual Acuity Test) ** ±± £			·	>	>		>	>
Illnesses			·	>	>	>		>	>
Interim Assessment	2s maranen, err		>						
Final Assessment		•	(when the subject discontinues or completes)	continues or comp	oletes)		(when the sub	(when the subject discontinues or completes)	completes)

Medical problems related to or affecting formula consumption will be recorded when they occur.
 Recorded daily and weekly during hospitalization.
 At hospital discharge or 28 days of study formula intake (after reaching 90 kcal/kg/d), whichever is later.

5. CRITERIA FOR RESPONSE

Criteria for response will depend upon the following:

- Visual Acuity better than the control formula.
- Visual Acuity comparable to breastfed term infant.
- Red Blood Cell phosphatidyl ethanolamine DHA and ARA weight % greater than formula control group.
- Growth as measured by weight achieved at 48 and 57 weeks postconceptual age comparable to formula control group.

10 **6. STATISTICS**

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6.1 RANDOMIZATION

If the subject meets the inclusion and exclusion criteria, randomization to one of three formula groups will take place. The randomization schedule will be provided by Mead Johnson Research Center. A separate randomization schedule will be provided for males and females.

6.2 SAMPLE SIZE

The primary parameter of interest is visual acuity as measured by the Forced Choice Preferential Looking (FPL). The minimal clinically relevant difference was determined to be 0.5 octave. A consultant in the field of visual acuity estimated the standard deviation to be 0.5 octave. This value was increased to .7 octave in case more variability was experienced in this study. Thirty-two subjects per group are needed to attain 80% power when testing at an alpha level of 0.05.

A sample size estimate of 50 per group was determined to achieve α + 0.05, β + 0.20, for weight of infants receiving study oil being greater than 400 gm below control at 48 weeks postconceptual age or 500 g below control at 57 weeks postconceptual age with a standard deviation of 800 g. It was therefore determined that 50 subjects per group will be used in the study.

6.3 ANALYTICAL PLAN

Visual acuity data will be recorded in cycles per cm. These values will be converted to cycles per degree using the following formula:

cycles/degree =
$$\frac{38 \text{ x cycles/cm}}{55}$$

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A log transformation will be applied to the data prior to analysis. Analysis of variance techniques will be used to assess feeding regimen group differences in visual acuity. If the overall F test for feeding regimen is significant at [al] an alpha level of 0.05, pairwise comparisons will be made at an alpha level of 0.05. If no significant differences are detected, then a post-study power analysis will be performed to demonstrate that the study had adequate power to detect the minimal clinically relevant difference.

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Analysis of variance will be used to assess feeding regimen differences in phosphatidyl choline DHA and ARA levels and in phosphatidyl ethanolamine DHA and ARA levels at each time point. If the overall F test is significant at [al] <u>an</u> alpha level of 0.05, then pairwise comparisons will be made at an alpha level of 0.05.

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Analysis of variance will be used to assess feeding regiment differences in weight at 48 and 57 weeks postconceptual age. The statistical model will include terms for feeding regimen, study center, sex and all two-way interactions. Non-significant interactions will be removed from the final statistical model. Two one-sided tests will be performed comparing each experimental formula (EC) with the control formula (CF). The hypothesis to be tested is as follows:

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 H_0 = Weight (CF) \leq Weight (EF).

The alternative hypothesis is as follows:

$$-H_1$$
 = Weight (CF) > Weight (EF).

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If H_0 [if rejected] <u>is rejected</u> and the mean weight of the control formula exceeds that of the experimental formula by more than

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400 mg at 48 weeks postconceptual age or by 500 g at 57 weeks postconceptual age then the conclusion is that the experimental formula does not exceed that of the experimental formula by more than 400 g at 48 weeks postconceptual age or by 500 mg at 57 weeks postconceptual age then the conclusion is that the experimental formula does provide adequate growth. If H₀ is not rejected then a post-study power analysis will be performed to demonstrate that [eh] the study had adequate power to detect the above mentioned clinically relevant differences. If adequate power is achieved then the conclusion is that the experimental formula does provide adequate growth.

Fisher's exact test will be used to compare the proportion of subjects in each group with illness/symptoms of concern during the study. The analysis will be performed for each type of illness/symptom reported, with classification of investigator terms into similar terminology made as necessary.

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APPENDIX A NUTRIENT COMPOSITION OF FORMULAS

All study formulas are 24 kcal/fl oz and are identical in composition to marketed Enfamil Premature Formula except for the study oils employed. These oils are described in the protocol.

	STUDY FORMULAS	
NUTRIENT	AMOUNT/100 kcal	ENFAMIL WITH Fe
Protein g	3	2.2
Fat, g	5.1	5.6
Carbohydrate, g	11.1	10.3
Vitamin A IU	1250	310
Vitamin D IU	270	63
Vitamin E IU	6.3	.2
Vitamin K mcg	8.	8
Thiamine, mcg	200	78
Riboflavin, mcg	300	150
Vitamin B ₆ , mcg	150	63
Vitamin B _{12,} mcg	0.25	0.23
Niacin, mcg	4000	1250
Folic Acid, mcg	35	15.6
Pantothenate, mcg	1200	470
Biotin, mcg	4	2.3
Vitamin C, mg	20	8.1
Choline, mg	12	15.6
Inositol, mg	17	4.7
Calcium, mg	165	78
Phosphorus, mg	83	53
Magnesium, mg	6.3	7.8
Iron, mg	1.8	0.5
Zinc, mg	1.5	0.78

	STUDY FORMULAS	
NUTRIENT	AMOUNT/100 kcal	ENFAMIL WITH Fe
Manganese, mcg	6.3	15.6
Copper, mcg	125	94
lodine, mcg	25	6
Sodium mg (mEq)	39 (1.7)	27 (1.17)
Potassium mg(Meq)	103 (2.6)	108 (2.8)
Chloride mg (Meq)	85 (2.4)	63 (1.77)

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FINAL STUDY REPORT

Study Design:

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This double-blind, parallel-group study (project 3338) was carried out in 16 neonatal centers (study numbers 9698-9709, 9712, 9723, 9743, and 9746) in North America. Three premature infant feedings were compared. Each had the same composition except for the incorporation of fungal and/or micro algal oils up to about 3% of the fat blend to provide the experimental levels of docosahexaenoic acid (DHA) and arachidonic acid (ARA). The control formula (C, Enfamil® Premature Formula) contained no DHA or ARA, the DHA formula (D) contained about 0.15% of energy as DHA (0.34% of fat), and the DHA+ARA formula (DA) contained about 0.14% of energy as DHA (0.33% of fat) and 0.27% of energy as ARA (0.60% of fat). The formulas were fed to 284 randomized infants weighing 846 to 1560 grams at birth for at least 28 days. Upon completion of study formula intake, they were given routine infant formula and followed through 4 months gestationally corrected age. A group of 90 exclusively human milk fed term infants were enrolled and followed to 4 months of age as a reference group (H).

Study Objective and Statistical Analysis:

The primary objective of this study was to establish the safety of

feeding D or DA to preterm infants during their initial hospitalization as measured 1) by growth, acceptance and tolerance while consuming the formula for at least 1 month and 2) by close monitoring and observation for a 4 to 5 month follow-up period (4-5 times the treatment period) while consuming unsupplemented routine term infant formula. The primary growth parameter selected was weight with evaluation of the proposition that weight on test formula was greater than or equal to weight on control formula. The one sided statistical test for an adverse effect on growth maximized the power to detect a difference should one be present. A two-sided test was used for all other parameters. A p-value of less than 0.05 was used to establish significance.

Secondary objectives of the study were 1) to evaluate the impact of fatty acid levels in erythrocyte phospholipids at the end of study feeding and 2) to determine if any effect on mean visual acuity greater than half an octave could be demonstrated at 2 and 4 months corrected age.

Results:

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Six infants were just outside the weight parameters and five infants just older than the less than 24 days chronological age parameter for enrollment in the study. In each case, judgement by the clinical or medical monitor was made to include them in the study prior to enrollment based on their homogeneity with other study infants in all other particulars, e.g., state of health, type of medical complications, and weight for gestational age. All these infants were included in the analysis of the study results.

The formula groups were comparable at enrollment (See table 1). Post-conceptual age, weight, length, and head circumference at enrollment did not differ among the groups.

All groups experienced comparable final study status (See table 2).

Drop outs did not differ among the formula fed groups during hospitalization. There also were no differences in drop outs among the four groups at study completion.

Both formulas D and DA provide adequate growth when compared to formula C (See table 3, figure 1, and Appendix 1). Weight gain during hospitalization was no less on D or DA than on C, 33.3, 34.7, and 30.7 g/day, respectively. Furthermore, no less weight was achieved on D or DA than on C at 40, 48, and 57 weeks post-conceptual age (See table 4, figure 2, and Appendix 1); statistical power was greater than 0.89 to detect a clinically relevant decrease.

Post-hoc analysis reveals that infants on DA grew faster than infants receiving C and D (See table 5 and figure 1). This enhanced growth provided faster "premature infant catch-up" compared to C and D. Weight achieved by the DA group (3198 g) was higher than C (3075 g) and D (3051 g) at 40 weeks post-conceptual age but had not fully caught up to the term birth weight (3438 g) of group H (See table 4 and figure 2). This catch up trend continued through 48 to 57 weeks by which time the mean weight of group DA did not differ from group H while groups C and D remained significantly lower.

Length was not different among the formula groups either during hospitalization or the follow-up period, although the ordered sequence of mean lengths was the same as for the weights (See table 7 and figure 3). This is likely at least partially due to length being a less sensitive parameter of growth than weight. For the same reason, the mean lengths of group H infants were higher than that of all the premature infant groups at 40, 48 and 57 weeks post-conceptual age indicating slower catch up in this parameter.

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Head circumference is the least sensitive parameter of growth and was not different among any of the four groups at any time measured except at 40 weeks postconceptual age (See table 8 and figure 4). At this time, as expected, the birth head circumference of group H was smaller than the formula fed premature infants possibly due to molding of labor and to insufficient time for adjustment to the extrauterine environment.

Visual acuity has reportedly been enhanced in studies where DHA supplemented formulas were fed to premature infants both in the hospital and continuing after discharge. In this study, visual acuity was measured about 3 months and then about 5 months after stopping study formula to determine whether a residual beneficial effect of at least half an octave might be observed. Although no difference in visual acuity was found among the formula groups at these times (See table 8 and figure 5), the acuity card method used, the length of study formula feeding, and/or the length of time not on study formula at the time of measurement may have precluded its detection. However, at 57 weeks post-conceptual age, the breast fed term infant group did have statistically higher visual acuity scores than the test formula groups. But even these differences were at most only 0.33 octave and were clinically insignificant (See figure 6). It is important to note that the breast fed infants continued to receive DHA and ARA during the 3-5 month follow-up period while the formula fed groups did not. Thus, this minor difference in performance was not unexpected based on previous study findings and on developmental differences between term and preterm infants even at the same gestational age.

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Individual fatty acid levels were determined in the phosphatidylcholine and phosphatidylethanolamine fractions of red blood cells before formula feeding, at the conclusion of test formula feeding, and at 48 weeks post-conceptual age (See tables 9 and 10). The premature infant groups were comparable at the beginning of test formula feeding. At the conclusion of test formula feeding, individual fatty acid levels varied among the groups. DHA and ARA were statistically significantly higher in the respectively supplemented groups. Other fatty acid levels reflected the impact of the supplementation. No clinically significant alterations in fatty acid levels or metabolism were identified. After discontinuing study formula and consuming a diet without DHA or ARA for about 3 months, no differences in fatty acid levels among formula fed groups were detectable,

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except for [phosphatidylethanolmine] <u>phosphatidylethanolamine</u> levels of 18:2 (range 8.9-9.3%) and DHA (range 3.2-4.1%) which differences were not identified as being clinically significant. However, the breast fed group shows statistically significant differences in 13 fatty acid levels compared to the formula fed infants. These differences are undoubtedly due to the differences in fatty acid composition of human milk and the term formulas including the lack of DHA and ARA in the latter.

Preterm infant complications were similar in all groups (See table 11). Over 80% of all infants were opthamologically examined and over 90% had ultrasound evaluation of their heads. Specifically, the incidence and severity of retinopathy of prematurity (ROP or retrolental fibroplasia/RLF) and the incidence of intraventricular hemorrhage or its complications did not differ among formula groups. No feeding group related complications were identified.

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Serious adverse experiences did not differ (p = 0.93) among the formula groups and were in the range of those expected in a premature infant population while on study formula: 6% in group C, 5% in group D, and 6% in group DA (See table 12). After the experimental formula phase, serious adverse experiences still did not differ among the preterm groups (See table 13): 13% in group C, 15% in group D, and 15% in group DA. However, the term infant breast fed-group had significantly fewer serious adverse experiences (1%, p = 0.002) as expected. Two infants reportedly suffered sudden infant death syndrome (SIDS), one in group C and one in group D; there was no significant difference in this complication among all four groups.

Conclusions:

We conclude that feeding 0.13% of calories as DHA from micro algal oil and feeding 0.13% of calories as DHA from micro algal oil plus 0.26% of calories as ARA from fungal oil in the matrix of premature infant formula to premature infants during the period of their initial hospitalization

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prior to 40 weeks post conceptual age is safe. These micro algal and fungal oil supplements do not result in any adverse effect on growth, clinical complications, or untoward events. Furthermore, this study reveals that growth benefits accrue to premature infants fed Enfamil Premature Formula supplemented with DHA and ARA from these sources compared to unsupplemented formula or formula supplemented with only DHA. No measurable benefit on visual acuity was identified when infants were tested at about 3 and 5 months after the supplemented formula was discontinued (2 and 4 months corrected age). However, providing human milk levels of intake of long chain polyunsaturated acids are warranted because they are critical to brain development and foster enhanced catchup growth during this early development period.

Table I
Birth Statistics of Premature Subjects

n	Mean (std)	Range	p-value
62	29.5 (1.7)	25 - 33	
66	1 , ,		0.076
1 -	,	1	0.078
1 00	25.7 (1.7)	20 - 34	
ł]	
62	1233.1 (176.6)	846 - 1560	ľ
1			0.05
	, , ,		0.25
- 00	1270.3 (177.0)	910 - 1333	
60	38.4 (2.3)	34 - 43 75	
66	•	1	0.62
			0.02
	30.7 (2.3)	JJ - 14	
61	26.9 (1.5)	23.5 - 30.5	
64	` ,	22 - 37	0.53
65	1 7		0.55
	62 66 66 66 66 66 61	62 29.5 (1.7) 66 30.0 (1.4) 66 29.7 (1.7) 62 1233.1 (176.6) 66 1272.8 (168.1) 66 1278.9 (177.6) 60 38.4 (2.3) 66 38.6 (2.2) 66 38.7 (2.3) 61 26.9 (1.5) 64 27.3 (2.1)	62 29.5 (1.7) 25 - 33 66 30.0 (1.4) 26 - 32 66 29.7 (1.7) 26 - 34 62 1233.1 (176.6) 846 - 1560 66 1272.8 (168.1) 900 - 1545 66 1278.9 (177.6) 910 - 1535 60 38.4 (2.3) 34 - 43.75 66 38.6 (2.2) 33 - 43.5 66 38.7 (2.3) 33 - 44 61 26.9 (1.5) 23.5 - 30.5 64 27.3 (2.1) 22 - 37

Table 2 Summary of Final Study Status

	Regimen		
Control DHA	DHA+ARA	TD	p-valu
2	2	HM	
			
(84%) 59 (89%) (16%) 7 (11%)			0.20
			
1 3			
1	1		
2	. 1		
	1		
87%) 47 (80%)	53 (85%)	77 (86%)	0.74
	(80%) (20%)		(==.5)

The CRFs for 9709-003 (DHA) and 9743-304 (DHA) were marked discontinued because the subjects met the study formula intake criteria for only 27 days. These subjects are counted completed here because subjects at other sites with similar intakes were marked completed.

*Based on subjects who completed the Study Formula phase. During the Term Formula phase, subjects were fed marketed formula. Switching to a different marketed formula did not result in termination from the Term Formula phase.

			uchder-by-Regimen P-value	
		Gender	p-value	0.17
	hase	Study	p-value	0.00
	tudy formula p	Comparison	p.value p.value	0.967
Table 3	Weight Growth Rate During Study Formula Phase	Comparison	Control vs 044	Control vs DHA+ARA
			1.1	- -
		Least Square S Hean	30.7	34.7
		,	09	6 %
		Regimen n	Control	DHA+ARA

Table 4

Weight at 40, 48, and 57 Weeks Post-Conceptual Age

veeks -Conceptual Age		c	Least Square Kean	Standard Error	Comparison	Comparison p-value*	Study p-value	Gender p-value	Gender-by-Regimen D-value
0 7	Control DIIA DIIA+ARA HM	25 25 20 20	3075.3 3051.4 3198.2 3437.7	67.9 66.8 62.9 60.6	Control vs DHA Control vs DHA+ARA HM vs DHA HM vs DHAAARA	0.388 0.931 0.000	0.59	0.45	1.00
87	Control DIIA DIIA+ARA		4711.0 4663.8 5039.1	94.6 97.3 93.0	IIH VS CONTrol Control VS DHA Control VS DHA+ARA HM VS DHA	0.000 0.360 0.995 0.000	0.58	0.13	0.29
	IIH Control		5181.5	85.9 139.5	HH vs Control HH vs Control Control vs DHA	0.114	95.0	. 00	
;	DHA DIIA+ARA IIM	49 76	5987.2 6312.9 6405.0	137.6 127.9 126.7	Control vs Dila+ARA HH vs DHA HH vs Dia+ARA	0.940 0.005 0.278		3	0.33

* One-sided test of the null hypothesis: Test Mean >= Control Mean

Table 5
Post-hoc Analysis of Weight

Time	Comparison	Two-sided p-value
Weight Gain During Study Formula Phase	C vs. DHA C vs. DHA+ARA DHA vs. DHA+ARA	0.067 0.004 0.30
Weight at 40 Weeks pca	C vs. DHA C vs. DHA+ARA DHA vs. DHA+ARA HM vs. DHA HM vs. DHA+ARA HM vs. C	0.78 0.14 0.074 <0.001 0.002 <0.001
Weight at 48 Weeks pca	C vs. DHA C vs. DHA+ARA DHA vs. DHA+ARA HM vs. DHA HM vs. DHA+ARA HM vs. C	0.72 0.011 0.004 <0.001 0.23 <0.001
Weight at 57 Weeks pca	C vs. DHA C vs. DHA+ARA DHA vs. DHA+ARA HM vs. DHA HM vs. DHA+ARA HM vs. C	0.74 0.12 0.057 0.010 0.56 0.028

Table 6

Length at 40, 48, and 57 Weeks Post-Conceptual Age

Gender-by-Regimen P-value 0.52 0.84 Gender P-value 0.05 Study p-value 0.03 0.00 0.00 Pairwise p-value 0.242 0.233 0.000 0.000 0.000 0.824 0.079 0.000 0.000 0.000 0.615 0.236 0.000 0.006 0.000 Control vs dha Control vs dha+ara ih vs dha HH vs dina+ara Control vs HH Dha vs dina+ara Control vs DHA Control vs DHA+ARA Control vs DHA Control vs DHA+ARA HM VS DHA
HM VS DHA+ARA
Control VS HH
DHA VS DHA+ARA HH VS DNA+ARA Control vs IIH DIIA VS DIIA+ARA Palrwise Comparison HN vs DHA Regimen p-value 0.000 0.000 0.00 Standard Error Least Square 48.4 47.8 49.0 50.6 54.7 54.6 55.5 57.4 60.7 60.5 61.3 62.4 52 54 58 83 83 53 52 57 81 42 42 24 24 24 25 Control DHA DHA+ARA HH Control
DHA
DHA+ARA Control DHA DHA+ARA HM Regimen Weeks Post-Conceptual Age 70 48 57

Table 7

Head Circumference at 40, 48, and 57 Heeks Post-Conceptual Age

Gender∙by-Regimen p∙value	0.38	1.00	0.85
Gender p-value	0.00	00.00	00.00
Study p-value	0.91	0.81	79.0
Pairwise p-value	0.931 0.900 0.000 0.000 0.000		
Pairwise Comparison	Control vs DHA+ARA Control vs DHA+ARA HH vs DHA HH vs DHA+ARA CONTROL vs HH DHA vs DHA+ARA		
	00.00	0.983	0.689
Standard Error	2.0	0.2 0.2 0.2 0.1	0.2 0.2 0.2
Least Square Hean	35.4 35.4 35.5 34.5	39.1 39.0 39.0 39.0	41.9 41.6 41.7 41.7
c	53 58 85 85	52 51 56 81	47 49 53 76
Regimen	Control DHA DHA+ARA HM	Control DHA DHA+ARA IIM	Control DHA DHA+ARA
Heeks Post-Conceptual Age	07	87	25

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Table 8 Visual Acuity at 48 and 57 Weeks Post-Conceptual Age

Study p-value	0.000	0.000
Pairwise p-value		0.697 0.071 0.042 0.000 0.113
Pairwise Comparison		Control vs DHA Control vs DHA+ARA HH vs DHA HH vs DHA+ARA Control vs HH DHA vs DHA+ARA
Regimen p-value	0.950	0.004
Standard Error (octaves)	0.10 0.10 0.09 0.09	0.08 0.08 0.07 0.07
Least Șquare Hean (log base2 cycles/deg)	0.78 0.85 0.78 0.81	1.79 1.75 1.61 1.94
Geometric mean (cycles/deg)	1.72 1.80 1.72 1.75	3.47
c	51 50 57 81	46 47 55 77
Regimen	Control DIIA DIIA+AŘA IIH	Control DHA DHA+ARA IIM
Veeks Post-Conceptual Age	87	57

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Red Blood Cell Phosphatidylcholine Fatty Acids

Pairwise	p-value								0.196 0.010 0.176
Pairwise Comparison									Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA
Regimen p-value	0.762	0.559	0,165	0.884	0.441	0.243	0.679	0.830	0.034
Hedian	0.036 0.030 0.031	0.599 0.686 0.656	0.021 0.016 0.018	36.594 35.578 35.987	0.845 0.976 0.931	11.468 11.201 11.174	17.308 16.935 16.988	18.952 19.603 18.824	0.116 0.130 0.134
Standard Error	0.019 0.013 0.009	0.036 0.031 0.031	0.009 0.005 0.006	0.540 0.462 0.445	0.049 0.050 0.064	0.243 0.238 0.192	0.298 0.391 0.271	0.525 0.505 0.466	0.008 0.008 0.009
Arithmetic Hean	0.081 0.066 0.057	0.623 0.663 0.661	0.045 0.026 0.035	36.706 36.363 36.877	0.940 0.981 1.094	11.660 11.402 11.016	17.053 17.219 17.256	18.614 18.631 18.573	0.120 0.136 0.150
. c	52 58 61	52 58 61	52 58 61	52 58 61	52 58 61	52 58 61	52 58 61	52 58 61	52 58 61
Regimen	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA: DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA
Fatty Acid	12:0	14:0	14:1	16:0	16:1	18:0	18:1	18:2	18:3n6
Time	Study Form Initiation	Study Form Initiation	Study Form Initiation	Study Form Initiation	Study Form Initiation	Study Form Initiation	Study Form Initiation	Study Form Initiation	Study form Initiation

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ş- ·				Tab	Table 9				
		Red	B100d	Red Blood Cell Phosphatidylcholine Fatty Acids	idylcholine	Fatty Acid	v		
Time	fatty Acid	Regimen	c	Arithmetic Mean	Standard Error	Median	Regimen p-value	Pairwise Comparison	Pairwise p-value
Study Form Initiation	20:0	Control DKA DHA+ARA	52 58 61	0.399 0.337 0.310	0.050 0.035 0.037	0.224 0.236 0.188	0.647		-
Study form Initiation	18:3~3	Control DHA DHA+ARA	52 58 61	0.315 0.257 0.233	0.033 0.014 0.010	0.246 0.246 0.216	0.234		
Study Form Initiation	20:1	Control DHA DHA+ARA	52 58 61	0.287 0.287 0.268	0.020 0.015 0.011	0.262 0.281 0.269	0.723		
Study Form Initiation	18:4	Control DHA DHA+ARA	52 58 61	0.017 0.025 0.017	0.003 0.004 0.003	0.000 0.017 0.008	0.290		
Study Form Initiation	20:2n6	Control DHA DHA+ARA	52 58 61	0.632 0.628 0.602	0.025 0.025 0.021	0.632 0.640 0.614	6.673		
Study Form Initiation	20:3n6	Control DHA DHA+ARA	52 58 61	2.144 2.208 2.218	0.098 0.080 0.074	2.096 2.296 2.135	0.507		
Study Form Initiation	20:4n6	Control DHA DHA+ARA	52 58 61	7.657 8.164 8.090	0.262 0.347 0.310	8.124 7.876 8.207	0.819		•
Study Form Initiation	22:1	Control DHA DHA+ARA	52 58 61	0.106 0.127 0.126	0.010 0.010 0.010	0.105 0.130 0.139	0.155		
Study form Initiation	20:5n3	Control DHA DHA+ARA	52 58 61	0.351 0.322 0.321	0.057 0.015 0.015	0.298 0.302 0.329	0.911		

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				I ab	Table 9				
		Red	B1 00d	Red Blood Cell Phosphatidylcholine Fatty Acids	idylcholine	fatty Acid	<u>s</u>		
Time	fatty Acid	Regimen	c	Arithmetic Mean	Standard Error	Median	Regimen p-value	Pairwise Comparison	Pairwise p-value
Study form Initiation	22:4n6	Control DHA DHA+ARA	52 58 61	0.578 0.493 0.443	0.144 0.030 0.021	0.423 0.481 0.425	0.331		
Study Form Initiation.	24:1	Control DHA DHA+ARA	52 58 61	0.208 0.115 0.180	0.054 0.019 0.056	0.075 0.084 0.096	0.665		
Study form Initiation	22:5n6	Control DHA DHA+ARA	52 58 61	0.266 0.259 0.265	0.020 0.017 0.018	0.232 0.239 0.256	0.923		
Study Form Initiation	22:4n3	Control DHA DHA+ARA	52 58 61	0.000	0.000	0.000	0.199		
Study Form Initiation	· 22:5n3	Control DHA DHA+ARA	52 58 61	0.213 0.215 0.203	0.019 0.013 0.010	0.203 0.195 0.193	0.885		
Study Form Initiation	22:6n3	Control DKA DHA+ARA	52 58 61	0.984 1.075 1.006	0.051 0.053 0.050	1.000 1.034 0.970	0.858		

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		T C	7000	Table Table	Table 9	, od . od	,		
***		Red	1 00018	Red Blood Cell Phosphatidyicholine ratty Acids	ופאוכשפווטפ	ratty Acids			
l ime	Fatty Acid	Regimen	c	Arithmetic Mean	Standard Error	Median	Regimen p-value	Pairwise Comparison	Pairwise p-value
Study Form Termination	12:0	Control DHA DHA+ARA	53 56 59	0.100	0.026 - 0.042 0.012	0.035 0.031 0.032	0.843		
Study Form Termination	14:0	Control DHA DKA+ARA	53 56 59	0.808 0.781 0.755	0.039 0.035 0.036	0.806	0.834		
Study Form Termination	14:1	Control DHA DHA+ARA	53 56 59	0.047 0.036 0.036	0.008 0.009 0.007	0.033 0.015 0.018	0.155		
Study Form Termination	16:0	Control DHA	25 53	35.837 35.560 35.069	0.512 0.595 0.584	34.798 34.841 33.890	0.767		
Study Form Termination	16:1	Control DHA DHA+ARA	53 56 59	0.566 0.594 0.526	0.026 0.042 0.029	0.526 0.475 0.472	0.013	Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA	0.118 0.003 0.152
Study form Termination	18:0	Control DHA DHA+ARA	53 56 59	13.972 14.065 14.341	0.261 0.237 0.253	14.197 13.867 14.108	0.886		
Study Form Termination	18:1	Control DHA DHA+ARA	53	14.456 14.116 14.344	0.277 0.272 0.380	14.291 13.998 14.218	0.686		
Study Form Termination	18:2	Control DHA DHA+ARA	55 56 59	21.673 22.045 19.899	0.340 0.457 0.337	21.506 22.517 20.662	0.001	Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA	0.600 0.005 0.001
Study Form Termination	18:306	Control DHA DHA+ARA	58 88	0.080 0.088 0.087	0.006	0.074 0.076 0.066	0.527		

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Table 9

Red Blood Cell Phosphatidylcholine Fatty Acids

Pairwise p-value		0.503 0.068 0.011					0.097 0.000 0.000		0.004 0.108 0.000
Paírwise Comparison		Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA					Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA		Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA
Regimen p-value	0.424	0.031	0.149	0.672	0.051	0.208	0.000	0.946	0.000
Median	0.392 0.281 0.251	0.283	0.302 0.283 0.283	0.015 0.018 0.008	0.910 0.873 0.821	2.091 2.043 1.904	6.029 5.892 8.891	0.125 0.114 0.104	0.189 0.233 0.169
Standard Error	0.050 0.053 0.049	0.020 0.030 0.009	0.014 0.013 0.013	0.004 0.003 0.002	0.026 0.023 0.022	0.073 0.070 0.064	0.240 0.220 0.255	0.010 0.009 0.011	0.022 0.012 0.014
Arithmetic Mean	0.504 0.472 0.430	0.321 0.335 0.273	0.318 0.300 0.307	0.022 0.022 0.014	0.893 0.880 0.824	2.032 2.017 1.908	6.046 5:774 8.465	0.117 0.110 0.115	0.214 0.246 0.186
. =	58.53	53	28.83	2882	28 83	288	28 23	228	28 83
Regimen	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DNA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA
Fatty Acid	20:0	18:3n3	20:1	18:4	20:2n6	20:3n6	20:4n6	22:1	20:5n3
ĭime	Study Form Termination	Study Form Termination:	Study Form Termination	Study Form Termination	Study Form Termination				

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Pairwise p-value

Control vs DHA
Control vs DHA+ARA
DHA vs DHA+ARA Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA Pairwise Comparison Regimen p-value 0.000 900.0 0.359 0.221 0.093 0.303 Red Blood Cell Phosphatidylcholine Fatty Acids 0.812 1.352 1.259 0.289 0.260 0.255 Median 0.062 0.086 0.089 0.163 0.133 0.165 0.000 0.390 0.426 0.487 Standard Error 0.019 0.026 0.013 0.072 0.063 0.049 0.039 0.036 0.040 0.013 0.011 0.009 0.001 0.001 0.002 0.048 0.061 0.027 Table 9 Arithmetic Hean 0.895 1.380 1.244 0.001 0.001 0.003 0.306 0.293 0.265 0.484 0.489 0.496 0.127 0.143 0.177 0.181 0.145 0.172 288 Control DHA DHA+ARA DHA+ARA Control DHA DHA+ARA DHA DHA+ARA Control DHA DHA+ARA DHA DHA+ARA Control Control Regimen Control 22:6n3 22:5n3 22:5n6 22:4n3 22:4n6 fatty Acid 24:1 Study form Termination lime

0.005 0.895 0.006 0.000 0.000 0.141

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		Pairwise p-value				0.527 0.593 0.000 0.000 0.000	0.524 0.467 0.000 0.006 0.000
		Pairwise Comparison				Control vs DHA Control vs DHA+ARA HM vs DHA HM vs DHA+ARA Control vs HH DHA vs DHA+ARA	Control vs DHA Control vs DHA+ARA HW vs DHA HW vs DHA+ARA Control vs HM
	Acids	Regimen p-value	0.729	0.943	0.448	.000.0	000.0
	line fatty	Median	0.026 0.016 0.021 0.020	0.331 0.324 0.328 0.338	0.013 0.011 0.015 0.020	34.319 34.473 34.165 32.228	0.338 0.352 0.368 0.473
Table 9	phatidylcho	Standard Error	0.005 0.006 0.004 0.016	0.039 0.032 0.024 0.026	0.006 0.007 0.006 0.008	0.577 0.689 0.506 0.506	0.043 0.023 0.024 0.020
	Red Blood Cell Phosphatidylcholine Fatty Acids	Arithmetic Mean	0.032 0.028 0.026 0.059	0.402 0.353 0.353 0.381	0.025 0.026 0.026 0.026	34.627 35.272 34.802 33.037	0.435 0.380 0.395 0.507
	Red B	c	32 38 38 56	32 32 36 38	37 38 38 56	37 32 38 56	37 32 38 56
		Regimen	Control DHA DHA+ARA HM	Control DHA DHA+ARA HM	Control DHA DHA+ARA HM	Control DHA DHA+ARA HM	Control DHA DHA+ARA HM
		Fatty	12:0	14:0	[16:0	16:1
		Time	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA

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		Pairwise p ⁻ value	0.760 0.889 0.000 0.000 0.000		0.840 0.527 0.000 0.000 0.000	0.950 0.774 0.004 0.001 0.003	
		Pairwise Comparison	Control vs DHA Control vs DHA+ARA HM vs DHA+ARA HM vs DHA+ARA Control vs HH DHA vs DHA+ARA		Control vs DHA Control vs DHA+ARA HM vs DHA HM vs DHAARA HM vs DHA+ARA Control vs HM	Control vs DHA Control vs DHA+ARA HM vs DHA HM vs DHA+ARA Control vs HH DHA vs DHA+ARA	
	Acids	Regimen p-value	0.000	0.256	0.000	0.002	0.785
	line Fatty	Median	12.759 12.786 12.793 14.729	18.636 18.492 18.227 18.727	23.552 23.717 23.839 18.482	0.061 0.067 0.062 0.039	0.197 0.206 0.172 0.215
lable 9	sphatidylcho	Standard Error	0.249 0.235 0.235	0.453 0.429 0.289 0.305	0.518 0.516 0.422 0.344	0.008 0.005 0.006 0.004	0.075 0.061 0.061 0.064
	Red Blood Cell Phosphatidylcholine Fatty Acids	Arithmetic Hean	13.016 12.944 12.804 14.583	17.894 17.766 17.850 18.662	23.538 23.538 23.738 18.650	0.071 0.069 0.069 0.042	0.348 0.339 0.304 0.409
	Red 8	c	37 38 38 56	37 32 38 56	32 38 56	38 32 33	37 32 38 56
		Regimen	Control DHA DHA+ARA HN	Control DHA DHA+ARA HM	Control DHA DHA+ARA ·	Control DHA DHA+ARA HM	Control DHA DHA+ARA HH
: =	=1.	Fatty	18:0	18:1	18:2	18:3n6	0:00 - =
		Time	48 Heeks PCA	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA

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	Pairwise p-value	0.812 0.918 0.001 0.002 0.001	0.579 0.588 0.001 0.001 0.000	0.822 0.161 0.039 0.001 0.054		0.610 0.735 0.000 0.000 0.000
	Pairwise Comparison	Control vs DIIA Control vs DHA+ARA HH vs DHA+ARA Control vs HH DHA vs DHA+ARA	Control vs DHAARA Control vs DHAARA HH vs DHA HM vs DHAARA Control vs HH DHA vs DHAARA	Control vs DHA+ARA Control vs DHA+ARA HM vs DHA HM vs DHA+ARA Control vs HH DHA vs DHA+ARA		Control vs DHA Control vs DHA+ARA HW vs DHA HW vs DHA+ARA Control vs HM DHA vs DHA+ARA
Acids	Regimen p-value	0.001	0.000	0.010	0.629	000.0
line fatty	Median	0.182 0.182 0.190 0.120	0.420 0.435 0.375 0.309	0.000 0.000 0.000 0.015	0.537 0.543 0.550 0.531	1.741 1.684 1.717 2.166
Table 9 phatidylcho	Standard	0.019 0.015 0.010 0.022	0.019 0.025 0.016 0.014	0.005 0.004 0.002 0.004	0.023 0.032 0.053 0.014	0.086 0.073 0.090 0.086
Table 9 Red Blood Cell Phosphatidylcholine Fatty Acids	Arithmetic Mean	0.222 0.211 0.203 0.182	0.418 0.406 0.382 0.311	0.018 0.016 0.007 0.024	0.543 0.557 0.636 0.560	1.709 1.702 1.844 2.265
Red B	<u>.</u> د	37 32 38 56	37 32 38 56	32 38 56	32 33 38 32 34	32 38 38 56
	Regimen	Control DHA DHA+ARA HM	Control DHA DHA+ARA HH	Control DHA DHA*ARA HM	Control DHA DHA+ARA HM	Control DHA DHA+ARA HM
	Fatty Acid	18:3n3	20:1	18:4	20:2n6	20:3n6
	Time	4B Weeks PCA	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA

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		Pairwise p-value	0.508 0.805 0.000 0.000 0.000		0.633 0.086 0.000 0.000 0.239		0.337 0.247 0.000 0.000 0.000 0.878
		Pairwise Comparison	Control vs DHA Control vs DHA+ARA HH vs DHA HH vs DHA Control vs HM DHA vs DHA+ARA		Control vs DHA Control vs DHA+ARA HH vs DHA HH vs DHA+ARA Control vs HH DHA vs DHA+ARA	• :	Control vs DHA Control vs DHA+ARA HH vs DHA HN vs DHA+ARA Control vs HH DHA vs DHA+ARA
	Acids	Regimen p-value	0,000	0.664	0.000	0.244	0.000
	line Fatty	Hedian	4.736 4.799 7.666	0.131 0.118 0.105 0.104	0.077 0.083 0.078 0.123	0.373 0.417 0.384 0.377	0.112 0.116 0.108 0.079
Table 9	sphatidylcho	Standard Error	0.255 0.196 0.185 0.250	0.036 0.014 0.024 0.030	0.015 0.006 0.009 0.009	0.059 0.029 0.054 0.022	, 0.070 0.062 0.055 0.020
	Red Blood Cell Phosphatidylcholine Fatty Acids	Arithmetic Mean	4.738 4.550 7.408	0.166 0.116 0.131 0.160	0.102 0.084 0.099 0.138	0.426 0.382 0.440 0.426	0.247 0.210 0.179 0.115
	RedB	c	37 38 38 56	37 38 38 56	37 38 38 56	37 38 38 56	32 38 38 56
,		Regimen	Control DHA DHA+ARA HM	Control DKA DHA+ARA HM	Control DHA DHA+ARA HH	Control DHA DHA+ARA HM	Control DHA DHA+ARA HM
		Fatty Acid	20:4n6	22:1	20:5n3	22:4n6	24:1
		Time	48 Weeks PCA	48 Weeks PCA	48 Veeks PCA	48 Heeks PCA	48 Weeks PCA

Pairwise p-value 0.598 0.759 0.000 0.000 0.000 0.111 0.052 0.000 0.000 0.000 0.505 0.647 0.000 0.001 0.000 0.270 Control vs DHA Control vs DHA+ARA HN vs DHA Control vs DHA Control vs DHA+ARA Control vs DHA Control vs DHA+ARA HH vs DHA IIN vs DHA+ARA Control vs HH DHA vs DHA+ARA HM vs DHA+ARA Control vs HM DHA vs DHA+ARA HM VS DHA HM VS DHA+ARA Control VS HM DHA VS DHA+ARA Pairwise Comparison Regimen p-value 0.000 0.000 0.000 1.000 Red Blood Cell Phosphatidylcholine Fatty Acids 0.212 0.186 0.198 0.265 Standard Error 0.029 0.017 0.026 0.018 0.047 0.048 0.043 0.043 Table 9 0.016 0.012 0.022 0.016 Arithmetic Mean 0.595 0.685 0.662 1.475 0.000 0.000 0.000 0.000 0.210 0.189 0.231 0.264 2883 38 32 32 32 32 32 32 37 32 38 38 56 38 38 Control DHA DHA+ARA HM Control DHA DHA+ARA HM Control DHA DHA+ARA HM Regimen DHA DHA+ARA HM Control 22:6n3 22:5n3 22:403 22:5n6 Fatty Acid 48 Weeks PCA 48 Weeks PCA 48 Weeks PCA 48 Weeks PCA

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Pairwise p-value 0.373 0.013 0.101 Control vs DHA+ARA Control vs DHA+ARA DHA vs DHA+ARA Pairwise Comparison Regimen p-value 0.546 0.792 0.181 0.967 0.142 0.412 0.773 0.00.0 0.337 Red Blood Cell Phosphatidylethanolamine fatty Acids Median 8.469 8.308 7.904 16.698 16.308 16.001 6.682 6.346 5.682 0.145 0.152 0.169 0.698 0.746 0.837 0.022 0.033 0.039 0.032 0.028 0.050 17.945 19.295 19.035 Standard Error 0.018 0.019 0.016 0.038 0.025 0.021 0.329 0.227 0.215 0.301 0.326 0.375 0.035 0.034 0.035 0.015 0.013 0.010 0.015 0.012 0.009 0.736 0.622 0.451 Table 10 Arithmetic Mean 0.731 0.769 0.836 8.857 8.434 8.201 16.450 16.208 16.415 6.615 6.336 6.175 0.307 0.278 0.277 20.021 19.847 19.796 0.080 0.061 0.062 0.069 0.075 0.063 52 57 61 52 52 52 57 61 Control DHA DHA+ARA Control DHA DHA+ARA Control DHA DHA+ARA Control **DHA+ARA** Control DHA DHA+ARA Control DHA DHA+ARA Control DHA+ARA Regimen Control Control DHA DHA+ARA 18:3n6 fatty Acid 18:2 18:0 18:1 12:0 14:0 16:0 16:1 14:1 Study Form Initiation J i me

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		Pairwise									
		Pairwise Comparison	-								
	cids	Regimen p-value	0.151	0.641	0.395	0.371	0.706	660.0	0.353	0.572	0.997
	ine fatty A	Nedian	0.291 0.244 0.186	0.261	0.517 0.555 0.544	0.000 0.025 0.021	0.480 0.437 0.427	1.829 1.820 1.911	26.820 27.376 27.708	0.138 0.151 0.141	0.357 0.370 0.335
10	/lethanolami	Standard Error	0.043 0.030 0.024	0.023 0.018 0.016	0.036 0.034 0.027	0.005 0.004 0.007	0.023 0.024 0.028	0.072 0.077 0.064	0.618 0.611 0.645	0.017 0.015 0.017	0.024 0.024 0.022
Table 10	Red Blood Cell Phosphatidylethanolamine Fatty Acids	Arithmetic Mean	0.372 0.314 0.259	0.305 0.269 0.257	0.573 0.615 0.571	0.025 0.031 0.030	0.479	1.843 1.965 1.973	25.817 26.475 26.747	0.150 0.167 0.168	0.378 0.384 0.366
	lood Co		52 57 61	52 57 61	52 57 61						
	Red B	Regimen	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA						
		fatty Acid	20:0	18:3n3	20:1	18:4	20:2n6	20:3n6	20:4n6	22:1	20:5n3
	. /	Time	Study Form Initiation	Study form Initiation	Study form Initiation						

Pairwise p·value Pairwise Comparison 0.375 0.875 0.068 0.555 0.257 0.195 Red Blood Cell Phosphatidylethanolamine fatty Acids 0.000 Hedian 1.782 1.857 1.775 0.041 0.031 0.047 0.083 0.070 0.075 0.028 0.009 0.010 0.001 0.001 0.002 Table 10 Arithmetic Kean 1.757 1.809 1.851 0.001 0.001 0.005 52 57 61 Control DHA DKA+ARA Control DHA DHA+ARA Regimen Control DHA DHA+ARA Control DHA DHA+ARA Control DHA DHA+ARA 22:513 22:6n3 22:5n6 22:4n3 22:406 Fatty Acid 24:1 Study Form Initiation Study Form Initiation

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Pairwise p-value 0.130 0.006 0.219 0.908 0.000 0.000 Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA Control vs DHA
Control vs DHA+ARA
DHA vs DHA+ARA Pairwise Comparison Regimen p-value 0.630 0.560 0.000 0.782 0.592 0.604 0.024 0.333 0.160 Red Blood Cell Phosphatidylethanolamine Fatty Acids 9.406 8.818 8.697 0.033 0.036 0.279 0.265 0.256 0.041 0.000 0.043 17.617 17.556 17.568 0.476 0.509 0.555 14.695 14.927 14.499 0.163 0.157 0.161 Standard Error 0.018 0.019 0.012 0.034 0.045 0.049 0.192 0.207 0.141 0.031 0.039 0.030 0.020 0.013 0.011 0.673 0.614 0.467 0.266 0.208 0.242 0.437 0.299 0.330 0.012 0.017 0.018 Table 10 Arithmetic 9.614 9.173 8.961 0.511 0.579 0.618 0.360 0.380 0.348 0.086 0.066 0.066 19.326 19.062 18.357 14.763 15.177 14.814 0.093 0.093 0.067 55 58 58 58.53 22 22 23 Control DHA DHA+ARA DHA+ARA Regimen DHA DHA+ARA DHA DHA+ARA DHA DKA+ARA Control Control DHA Control DHA **DHA+ARA** Control DIIA+ARA Control Cantrol Control DHA+ARA Control 18:306 fatty Acid 18:0 18:1 18:2 16:0 12:0 14:0 14:1 16:1 Study Form Termination Time

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Pairwise p-value 0.286 0.000 0.000 Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA Pairwise Comparison Regimen p-value 000.0 0.164 0.108 0.068 0.203 0.229 0.000 0.134 Red Blood Cell Phosphatidylethanolamine Fatty Acids 0.018 0.019 0.000 25.132 24.038 27.372 0.017 0.016 0.015 0.029 0.028 0.025 0.010 0.029 0.030 0.026 0.111 0.094 0.073 0.527 0.520 0.437 0.019 0.016 0.012 Table 10 0.553 0.579 0.507 0.754 0.774 0.654 0.042 0.026 0.022 Control DHA DHA+ARA Control DHA DHA+ARA Control DHA DHA+ARA Control DHA DHA+ARA Control DHA. DHA+ARA Control DHA DHA+ARA DIIA DIIA+ARA Control DHA DHA+ARA DHA+ARA 20:5n3 20:2n6 20:3n6 20:400 18:303 22:1 Fatty Acid 20:1 18:4 20:02 Study form Termination Study Form Termination

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		Pairwise	0.025	30	0.003 0.255 0.050		0.004 0.002 0.943	0.000 0.000 0.027	
		Pairwise Comparison	Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA		Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA		Control vs DHA Control vs DHA+ARA DIIA vs DHA+ARA	Control vs DHA Control vs DHA+ARA DHA vs DHA+ARA	
	cids	Regimen p-value	0.007	0.294	0.010	0.137	0.003	0.000	
	ne Fatty A	Median	7.656 6.885 7.635	0.038 0.042 0.041	1.423	0.000	2.839 2.400 2.269	4.815 7.043 6.498	
10	/lethanolami	Standard Error	0.208 0.154 0.155	0.023	0.064 0.034 0.040	0.000	0.110 0.091 0.069	0.151 0.183 0.150	
Table 10	Red Blood Cell Phosphatidylethanolamine Fatty Acids	Arithmetic Mean	7.309 7.135 7.592	0.092 0.056 0.062	1.444 1.231 1.347	0.000 0.004 0.004	2.694 2.334 2.237	4.798 6.762 6.389	
	lood Ce	ċ	55.55	53.5	S 55 82	53 53	53 58	53 58 58	
	Red B	Regimen	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	Control DHA DHA+ARA	
		Fatty Acid	22:4n6	24:1	22:5n6	22:4n3	22:513	22:6n3	
		l'ime	Study form Termination	Study Form Termination	Study Form Termination	Study form Termination	Study form Termination	Study Form Termination	

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	Pairwise p-value					0.601 0.524 0.000 0.000 0.001
	Pai					
	Pairwise Comparison					Control vs DIIA Control vs DHA+ARA IM vs DHA IM vs DHA+ARA Control vs IM
ty Acids	Regimen p•value	0.587	0.598	0.092	0.177	0.00
olamine fat	Median	0.024 0.019 0.018 0.023	0.169 0.162 0.188 0.210	0.037 0.000 0.044 0.021	16.314 15.692 16.997 17.607	0.349 0.336 0.376 0.562
Table 10 natidylethano	Standard Error	0.019 0.016 0.014 0.011	0.030 0.041 0.025 0.016	0.017 0.017 0.019 0.019	0.595 0.729 0.538 0.395	0.050 0.035 0.022 0.027
Table 10 Red Blood Cell Phosphatidylethanolamine Fatty Acids	Arithmetic Mean	0.053 0.054 0.047 0.045	0.243 0.251 0.235 0.236	0.080 0.055 0.078 0.053	17.319 17.101 17.225 18.138	0.390 0.390 0.440
led Bloc	c	37 32 38 56	37 32 38 56	37 32 38 56	33 38 56	37 38 38 56
•	Regimen	Control DHA DHA+ARA HM	Control DHA DHA+ARA HM	Control DHA DHA+ARA NM	Control DHA DHA+ARA HM	Control DHA DHA+ARA HH
	fatty Acid	0:57	17:0	14:1	16:0	16:1
	lime	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA	48 Weeks PCA

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Pairwise p-value 0.347 0.483 0.020 0.000 0.001 0.108 0.118 0.005 0.758 0.067 Control vs DHA Control vs DHA+ARA HN VS DHA+ARA Control vs HM DHA VS DHA+ARA IIM VS DHA+ARA Control vs HM DHA VS DHA+ARA Control vs HM DHA vs DHA+ARA HM VS DHA HM VS DHA+ARA Pairwise Comparison HH VS DHA HH VS DHA HH VS DHA Regimen p-value Red Blood Cell Phosphatidylethanolamine Fatty Acids 0.000 0.038 0.00 0.050 0.728 **Hedian** 7.174 7.552 7.173 8.409 19.410 19.534 19.433 18.141 9.267 8.696 8.840 6.027 0.182 0.171 0.158 0.112 0.146 0.145 0.125 0.240 Standard Error Table 10 0.327 0.293 0.270 0.230 0.368 0.421 0.332 0.278 0.261 0.210 0.216 0.193 0.020 0.031 0.021 0.012 0.058 0.042 0.037 0.031 Arithmetic Hean 7.935 7.962 7.443 8.754 19.438 19.066 19.302 18.469 9.328 8.867 9.257 6.291 0.263 0.262 0.212 0.295 32 33 38 38 38 38 38 288 33 33 33 38 33 26 33 38 33 26 38 26 38 Control DHA DHA+ARA HN DHA DHA+ARA HM Control DHA DHA+ARA HM Regimen Control DHA DHA+ARA HN Control DHA DHA+ARA HM Control 18:3n6 Fatty Acid 18:0 18:1 18:2 20:02 48 Weeks PCA Time

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Pairwise p-value 0.559 0.848 0.008 0.002 0.001 0.339 0.512 0.000 0.000 0.000 0.543 0.532 0.000 0.000 0.000 0.896 0.935 0.015 0.006 0.007 0.835 Control vs DHA
Control vs DHA+ARA
HH vs DHA
HH vs DHA+ARA
Control vs HH
DHA vs DHA+ARA Control vs DHA Control vs DHA+ARA Control vs DHA Control vs DHA+ARA Control vs DHA Control vs DHA+ARA HM vs DHA HM vs DHA+ARA Control vs HM DHA vs DHA+ARA HH VS DHA HM VS DHA+ARA Concrol VS HH DHA VS DHA+ARA HN VS DHA HN VS DHA+ARA Control VS HM DHA VS DHA+ARA Pairwise Comparison Regimen p-value Red Blood Cell Phosphatidylethanolamine Fatty Acids 0.000 0.000 0.001 0.057 0.012 Median 0.648 0.782 0.738 0.492 0.225 0.262 0.245 0.169 0.003 0.000 0.000 0.019 0.698 0.684 0.689 0.412 1.999 2.045 2.132 1.637 Standard Error Table 10 0.025 0.017 0.015 0.020 0.031 0.032 0.188 0.024 0.005 0.005 0.006 0.006 0.035 0.026 0.032 0.016 0.099 0.100 0.114 0.053 Arithmetic 0.291 0.270 0.265 0.226 0.715 0.772 0.936 0.533 0.672 0.668 0.715 0.444 Kean 0.017 0.017 0.023 0.027 2.138 2.165 2.172 1.715 **~** 28 32 32 32 32 28 33 33 32 38 38 56 2883 DHA DHA+ARA HM DHA DHA+ARA HM DHA DHA+ARA HM Regimen DHA DHA+ARA HM Control DHA DHA+ARA HM Control Control Control Control 18:3n3 fatty Acid 20:2n6 20:3n6 20:1 48 Weeks PCA I i me

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		Pairwise p-value		9	-	0.612 0.416 0.000 0.013 0.001	
		Pairwise Comparison			·	Control vs DHA Control vs DHA+ARA IH vs DHA HH vs DHA+ARA Control vs IIH DHA vs DHA+ARA	
	tty Acids	Regimen p-value	0.950	0.121	265.0	0.001	0.943
	olamine Fa	Median	24.774 25.206 25.122 25.122	0.172 0.188 0.133	0.368 0.377 0.347 0.360	8.761 9.132 8.472 7.618	0.035 0.034 0.036 0.027
Table 10	hatidylethar	Standard Error	0.536 0.491 0.429 0.384	0.016 0.022 0.022 0.013	0.026 0.015 0.011 0.011	0.267 0.250 0.188 0.203	0.016 0.009 0.008 0.016
	Red Blood Cell Phosphatidylethanolamine Fatty Acids	.Arithmetic Mean	24.508 24.428 24.788 24.788	0.168 0.189 0.154 0.148	0.382 0.369 0.347 0.384	8.580 8.791 8.576 7.727	0.067 0.049 0.046 0.062
	Red Blo	c	37 38 38 56	32 38 58	32 32 38 38 38	33 38 38 38 38	38 38 28 29
		Regimen	Control DHA DHA+ARA HM	Control DHA DHA+ARA HM	Control DHA DHA+ARA HH	Control DHA DHA+ARA HM	Control DHA DHA+ARA HH
		fatty Acid	20:4n6	22:1	20;5n3	22:4n6	24:1.
		Time	48 Heeks PCA	48 Weeks PCA	48 Weeks PCA	48 Veeks PCA	48 Veeks PCA

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Table 10

Pairwise P-value 0.977 0.997 0.000 0.000 0.000 0.884 0.148 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Control vs Dha Control vs Dha+ara HH vs Dha HH vs Dha+ara Control vs HH Dila vs Dha+ara Control vs DHA+ARA Control vs DHA Control vs DHA+ARA HM VS DHA+ARA Control VS HM DHA VS DHA+ARA Control vs DHA IIH VS DIIA HM VS DIIA+ARA Control VS HM DHA VS DHA+ARA Comparison HM VS DHA Pairwise Regimen p-value Red Blood Cell Phosphatidylethanolamine Fatty Acids 0.000 1.000 0.000 0.000 1.414 1.359 1.889 Hedian 0.000 0.000 0.000 0.000 2.681 2.630 2.443 1.978 3.013 4.079 3.721 7.341 Standard Error 0.066 0.057 0.054 0.056 0.000 0.000 0.000 0.001 0.092 0.086 0.066 0.065 0.159 0.177 0.134 0.201 Arithmetic Mean 0.000 0.000 0.000 0.001 2.567 2.561 2.436 1.942 1.401 1.353 1.364 1.883 3.196 4.143 3.801 7.283 28 32 32 28 22 22 28 32 32 26 28 32 2883 DHA DHA+ARA HM Control DHA DHA+ARA HN Control DHA DHA+ARA HM Control DHA DHA+ARA HH Regimen Control 22:5n6 22:4n3 22:5n3 22:6n3 fatty Acid 48 Weeks PCA 48 Weeks PCA 48 Weeks PCA 48 Weeks PCA Time

Table 11
Preterm Infant Complications

	·	Regimen		p-value*
	Control	DHA	DHA+ARA	1 .
Retinopathy of Prematurity Test Results Absent I II III Present, but not	34 (76%) 8 (18%) 2 (4%) 1 (2%)	44 (76%) 11 (19%) 2 (3%) 1 (2%)	41 (79%) 6 (12%) 4 (8%)	0.,91
graded			1. (2%)	
Ultrasound Examination for Intraventricular Hemorrhage None Stage 1 Stage 2 Stage 3 Stage 4 Questionable	47 (81%) 6 (10%) 3 (5%) 1 (2%) 1 (2%)	52 (84%) 9 (15%) 1 (2%)	49 (80%) 7 (11%) 2 (3%) 1 (2%) 2 (3%)	0.78
Posthemorrhagic Hydrocephalus developed? No Yes	61 (98%) 1 (2%)	65 (98%) 1 (2%)	64 (97%) 2 (3%)	1.00

^{*}The statistical test was based on a dichotomous response: present or absent.

Table 12
Serious Adverse Events Reported During Study Formula Phase

		Regimen		
Event	Control	DHA	DHA+ARA	p-value
Any Event	4 (6%)	3 (5%)	4 (6%)	0.93
Other Respiratory Conditions of Fetus and Newborn	2 (3%)	0	0	0.10
Other Infection Specific to the Perinatal Period	1 (2%)	0	0	0.32
Intraventricular Hemorrhage	0	0	1 (2%)	1.00
Other Specified Perinatal Disorders of Digestive System	0	1 (2%)	0	1.00
Convulsions in Newborn	1 (2%)	0	0	0.32
Feeding Problems in Newborn	0	1 (2%)	1 (2%)	1.00
Hernia	0	0	1 (2%)	1.00
Other	0	1 (2%)	1 (2%)	1.00

Table 13
Serious Adverse Events Reported During the Term Formula Phase

		Re	gimen		
Event	Control	DHA	DHA + ARA	HM	p-value
Any Event	7 (13%)	9 (15%)	9 (15%)	1 (1%)	0.002 C VS D 0.79 C VS D+A 0.79 D VS D+A 1.00 C VS HM 0.006 D VS HM 0.001 D+A VS HM 0.001
Infectious Colitis, Enteritis, and Gastroenteritis	0	0	1 (2%)	0	0.67
Croup	0	o	1 (2%)	0	0.67
Bronchopneumonia, Organism Unspecified	2 (4%)	3 (5%)	6 (10%)	0	0.013 C vs D 1.00 C vs D+A 0.27 D vs D+A 0.49 C vs HM 0.15 D vs HM 0.064 D+A vs HM 0.004
Asthma, Unspecified	1 (2%)	0	0	0	0.21
Esophageal Reflux	0	1 (2%)	.2 (3%)	0	0.23
Dyspepsia and Other Stomach Function Disorder	0	0	0	1 (1%)	1.0
Other Respiratory Conditions of Fetus nd Newborn	1 (2%)	1 (2%)	3 (5%)	0	0.11
Convulsions	1 (2%)	0	0	0 .	0.21
udden Infant Death yndrome	1 (2%)	1(2%)	0	0	-0.34
ernia	2 (4%)	2 (3%)	0	0	0.11
ther	0	3 (5%)	2 (3%)	0	0.063

Appendix 1

Listing of Weights Included in the Statistical Analyses

49t_57 6816 56.6 6610 7470 57.3 48c 48 3731 3064 3575 3688 3745 3070 3070 3590 3620 3170 2520 2150 39.3 Growth Rate g/day 31.5 23.9 56.9 34.1 27.7 36.1 36.2 33.8 43.3 34.2 28.9 41.7 54.4 Wg t'9 Mgt8 Hgt7 2045 Ng t 6 1760 37.3 2340 1870 34.1 2012 2425 1665 36.3 1450 35.4 2045 1494 34.4 2752 1851 1775 32.1 1840 35.4 1566 34.6 1230 32.6 1261 32.0 1855 32.6 1298 1205 1630 33.4 975.0 32.3 1600 34.4 1810 32.1 1785 30.7 Veight (g) Age (weeks pca) Weight (g) Age (weeks pca) Veight (g) Age (weeks pca) Veight (g) Age (weeks pca) pca) Veight (g) Age (weeks pca) Weight (g) Age (weeks pca) Weight (g) Age (weeks pca) Weight (g) Age (weeks pca) pca) Weight (g) Age (weeks p Weight (g) Age (weeks Variable 9703-0304 9704-0303 9020-6696 9010-6696 9701-0303 9701-0304 9702-0302 9703-0302 9703-0308 9699-0302 9700-0301 9698-0304 9698-0301 Subject Control Control Control Control Control Control Control Control Control Gender Hale Hale Male Hale Hale Male Hale Hale Hale Male Hale Hale Hale

subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page. FOUL

Attorney Docket: 19400/09003 (MJ729)

Analyses
Statistical
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Included in
Weights
Listing of

	48 4gt_57		5646 56.4 56.4	16 7490 7 56.7	50 6170 .7 56.7	50 6675 .6 56.9	55 6090 .0 56.3	55 5185 7 56.6	35 6530 .7 57.1	65 .0	70 7330 .1 57.0	5775 0.0 56.7		7 57.3
	48 J		4936 47.4	5816 47.7	4660 48.7	48.6	5155 48.0	3795	4235 47.7	446	5470 48.1	5700 48.0		3300
	Ngt 40		2540 39.6	3291 39.7	2800	3050 41.0	3835 40.6	2930 40.1	2530 39.7	2965	3680,	3875		2160 40.1
Growth	9/day	23.7	30.9	25.3	37.1	22.2	6.97	32.8	. 32.7	30.7	37.4	30.8	26.1	21.0
•	Hgt9							٠					1433	
	Иgtв												1402 32.6	
	Hgt7												1369	
	Ngt 6						٠			•			1330 32.3	1985 38.1
	WgtS		2240 37.4			2465		2460 35.7	2310			2040	1294 32.1	1835
	Hgt¢	1860 34.1	1786 36.0	1810 34.6	2435	2185 36.4	2495 35.4	2450 35.4	2195	1910 34.9	2520 35.7	1910 33.7	1291	1670 36.1
	Wgt3	1640 33.0	1588 35.0	1570	2130	2135 35.6	2005	2215	1650 35.1	1644	2205 34.7	1660	1245	1456
	N912	14.75	1389	1280	1865 36.6	1984	1734 33.1	1820 32.9	1600	1442	1960	1440 31.7	1221 31.7	1345
	Wgt1	1315	1280 33.0	1270	1645	1875 33.7	1655 32.9	1544	1415	1046 30.9	1730 32.7		1245	1292
	Variable	Veight (g) Age (veeks pca)	Weight (g) Age (weeks pca)	Weight (9) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (9) Age (Weeks pca)	Veight (9) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)		Weight (g)			
: o	Subject		9705-0302	9705-0304	9706-0302	9706-0303	9706-0308	9707-0302	9707-0303	9707-0309	9708-0303	9709-0302	9712-0301*	9712-0302
	Regimen	Control	Control	Control										
	Gender	Male	Male	нате	Male	Hale	Hale	Hale	Hale	Male	Male	Male	Male	Hate

Appendix 1

Listing of Weights Included in the Statistical Analyses

Growth Rate Hgtå Hgt9, g/daγ Hgt_48 Hgt_57	10.0 · 2260 4535 . 41.0 50.0	48.9 3085 4795 6695 40.6 47.6 57.6		47.5 3170 5206 7036 39.9 47.9 57.1	39.9 47.9 2575 4334 40.0 48.0	3170 5206 39.9 47.9 2575 4334 40.0 48.0 3121 5192 39.9 48.0	3170 5206 39.9 47.9 2575 4334 40.0 48.0 3121 5192 39.9 48.0 2724 4341	3170 5206 39.9 47.9 2575 4334 40.0 48.0 3121 5192 39.9 48.0 2724 4341 40.1 46.1 1986 3206 40.0 48.0	3170 5206 39.9 47.9 2575 4334 60.0 48.0 3121 5192 39.9 48.0 2724 4341 40.1 46.1 1986 3206 40.0 48.0 35.6 47.4	28.3 2575 47.9 28.3 2575 47.9 27.9 3121 5192 27.9 3121 5192 39.9 48.0 48.3 2724 4341 40.1 48.1 40.1 48.1	28.3 2575 47.9 28.3 2575 47.9 27.9 3121 5192 37.9 48.0 48.3 2724 48.0 48.3 2724 48.1 40.1 46.1 40.1 46.1 40.1 46.1 40.1 46.1 40.1 46.1 40.1 46.1 40.1 46.1 40.1 46.1 30.6 48.0 40.1 3885 5420 40.4 47.6 34.7 3860 34.7 3860	28.3 35.9 47.9 28.3 2575 47.9 27.9 3121 5192 48.3 2724 48.0 40.1 48.1 48.1 22.5 1986 3206 40.0 48.1 48.1 22.5 1986 3206 45.4 39.6 47.4 2288 20.4 2805 38.6 40.4 47.6 34.7 36.0 47.6 39.7 39.7 48.0	28.3 2575 47.9 28.3 2575 47.9 27.9 3121 5192 48.3 2724 48.0 48.3 2724 48.1 40.1 46.1 22.5 1986 3206 45.4 35.6 47.6 34.7 36.0 34.7 36.0 34.7 36.0 34.7 36.0 34.7 36.0 34.7 36.0 41.7
									2104 2276 36.4 37.4				
t4 Ngt5 Ngt6	20	85 3085 .6 40.6		2575 40.0	1617 34.3	1882 2724 35.4 36.4	1666 37.7	3045 37.7	1689 1902 2019 33.4 34.6 35.6	2253 2582 34.7 35.7	2595 2780 36.0 37.1		2390 36.0
Hgt2 Hgt3 Hgt4	1570 1670 1720 35.0 36.0 37.1	2465 2760 3085 38.9 39.7 40.6	1860 3170 36.1 39.9	1830 2090 25 36.3 37.3 40	1207° 1360 16 32.3 33.3 34	1435 1631 18 33.4 34.4 35	1358 1484 16 35.7 36.7 37	1980 2450 30 34.4 35.9 37	1234 1365 16 30.6 31.6 33	1829 1880 22 33.1 33.7 34	2030 2285 25 34.1 35.1 36	1870 2180 34.0 35.0	1725 2020 23 33.7 34.9 3d
Vgt1 1	1520	2065	1640	1620	31.3	1258 32.4	1182 ca) 34.7	•		1621 oca) 31.7	1775 1775 1775 1775	1725 pca) 33.4	1525 oca) 32.7
variable	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (9) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Height (g) Age (weeks	Weight (g) Age (weeks pca)
Subject	9743-0301	9746-0301	9698-0302	9698-0306	9699-0301	9699-0303	2050-6696	9700-0303	9701-0301	9701-0305	9703-0303	9703-0306	9703-0307
Regimen	Control	Control	DIIA .	DIIA	DIIA	DIIA	DIIA	DIIA	DIIA	DIIA	DHA	· DIIA	DHA
Gender	Male	Male	Male	Male	Hale	Male	Hale	Male	Male	Male	Male	Hale	Male

* Four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

* Four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

	Analyses
	listing of Weights Included in the Statistical Analyses
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v punddy	Included
	Weights
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	listina

	Ngt_57	4300	4800	5787 56.4		6900 57.3	56.9		6755. 57.6	7150 57.6		6090	5930 57.7	6256 57.3
	Mgr_48	3900	3750 48.0	4170		5265 48.1	4205		5115 48.0	5100 48.6		4420	4375	
	Ngt_40	2880		2370 39.6	3291 39.6	3335	3310		3280 39.9	3050 40.6		3004	2850 39.3	3873 42.9
Rate	g/day	29.3	97.52	30.8	36.7	36.8	42.8	17.7	36.9	43.2	39.6	36.7	35.8	39.2
	Hgt9										1938 33.6			•
	HgrB										1882 33.4			
	Ngt7										1858 33.3			
	Wgt6		2170 35.9								1811 33.1			
	Ng t S	2140 35.9	2020 34.7	2330					2570 36.0	3050	1778 33.0		•	
	Ngt4	1960 35.0	1760	1843	2240 34.0	2260 36.0			2400 35.4	3050	1732	39.3	2850	
	Wgt3	1730	1550 32.7	1616	1980	1915 34.7	2160		1990	2260 38.1	1699 32.7	3004	2850 39.3	2500 37.0
	Ngt2	1570 33.1	1370	1446 34.0	1770	1655	1908	1429	1740 33.0	2040	1675	2045	1923	1740 34.3
	Wgt1	1380 32.1	1320	1380 33.0	1.18	1490	1604	1305	1555 32.0	1728 36.1	1649 32.4	1780 34.4	1651	1485
	Variable	Weight (g) Age (weeks pca)			Weight (g) Age (weeks pca)		Weight (g) Age (weeks pca)	Weight (9) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (9) Age (Weeks pca)	Weight (9) Age (weeks pca)	Weight (9) Age (weeks pca)	Weight (g) Age (weeks pca)
	Subject		9060-9066	9705-0303	9705-0305	9706-0304	9060-9076	9707-0001	9707-0304	9707-0306	9707-0307*	9707-1308	9707-2308	9708-0302
	Caminad	DHA	DIIA	DIIA	DIIA	DIIA	. Alid	DIIA	DHA	DHA	DIIA	DIIA	DIIA	DHA
	, () () () () () () () () () (uender Hale	Hale	Hale	Hale	Male	наве	наве	Male	Hale	Hale	Hale	Male	Hale

ppendix 1

Listing of Weights Included in the Statistical Analyses

									,					
	Ngt_57	6750 56.4		7300	. \$860 \$7.6			9,95 56.6	7937 57.3	4993	5050 57.6	7380 56.7	6600 56.7	
	Mgt_48	5080 47.4		5200 48.1	4680	5500 48.6	5840 50.6	5525 47.6	6007 47.6	3404	4256	5540	5055	5200 48.4
	Ngt_40	3150 39.4		3160	3040 39.6	3100	3628 38.1	2440 37.4	3553 40.3	2355	2610	3255 39.7	3240 39.7	3960 42.3
Growth Rate	g/day	44.4	7.1	30.5	33.9	31.1	32.2	20.9	32.0	29.8	17.2	40.7	48.9	41.4
	4919													
	Ng t B													
	Ngt7								·					3228 37.7
	Ngté													3072 37.3
	Wgt5	2800 36.7		2550 37.6			2440 36.4					2735 37.9		2756 36.3
	Ngré	2400 35.4		2160 36.0	1945 34.5	2300	2375 36.0		2120	2355	1490	2570 36.9	2835	2460 35.3
	Ng c 3	2000 34.4		1985 35.0	1695 33.5	2100	2160 35.0	1550 33.6	1870 33.3	1950 38.1	1290 34.0	2235 35.9	2045 35.6	2245 34.4
	Hgt2	1740 33.4	1520 35.4	1800 34.0	1435 32.5	1810	1880 34.0	1340	1690 32.4	1689	1134	1880 34.7	1686 34.6	2037
	Wgt1	1490	1470 34.4	1545	1240	1700	1530	1120	31.1	1499 36.1	1056 32.0	1635 33.9	33.6	1587
	Variable	Veight (g) Age (weeks pca)	Veight (g) Age (Weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Veight (g) . Age (weeks pca)	Weight (g) Age (weeks pca)
	Subject	9709-0301	9709-0304	9712-0304	9712-0306	9743-0303	7010-1726	9698-0305	9050-9696	7080-6696	50£0-6696	DIIA+ARA 9700-0302	9701-0302	9701-0306
	Reginen	рна	DHA	DIIA	DIIA	DIIA	DIIA	DHA+ARA	DIIA+ARA	DHA+ARA	- DIIA+ARA	DIIA+ARA	DIIA+ARA	DIIA+ARA
	Gender	Male	жаl е	Male	Male	Male	Male	Hale	Male	Kale	Male	Hale	Male	Male

* Four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

Appendix 1

Listing of Weights Included in the Statistical Analyses

	49t_57	7475 57.4		6520 56.4	6720	5630	7050 56.7	8050 57.4	5873 58.0	6809 56.9	6596 56.7	6225 58.1	6925 57.6	5775
	85_16H	5930 48.6	5250 47.6	5160 48.0	6020	4330	5460	6540 48.1	4400	5447 47.9	5589	4820	\$955 49.1	5255 48.7
	40 Tab	3445 40.6	3780 40.6	3500	4350	3170 40.0	3220 39.9	2570	2979	3631	3007 39.9	2695 39.9	3585	3460 40.9
Growth	g/day	42.5	36.0	7.05	42.3	34.1	35.1	22.2	. 27.0	32.7	36.4	31.4	0.02	40.3
	Hgt9													
	WgtB													
	Wgt7	•												
	Wgt6					2590 36.9		1840 36.9						
	Hgt5			•	2415 33.4	2390	2050 34.4	1680 36.0		2300 35.9				
	Wgts	2932 38.4	2660 36.0		2055 32.3	2115 35.0	1740 33.4	1520 34.9	1870 35.7	2020 34.4	2240 37.4	1930 36.6	2270 35.1	
	Hgt3	1919 35.1	2160 34.0	2660 36.4	31.3	1830 34.0	1490	1370	1620 34.7	1700	1810 36.1	1660 35.4	1825	2150 36.0
	Hgt2	1710 34.3	1865 33.0	1905 33.9	1460	1635 33.0	1270	1230 33.0	1440 33.7	1490	1650 35.4	1455	1585 33.0	1910 35.3
	Wgt1	1397	1670 . 32.0	1650 32.9	1255	1440	1110 30.6	1080	1300 32.7	1320 31.4	1480 34.4	1330	1355 31.9	1620
	Variable	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Height (9) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks.pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)
<u></u>	Subject	9701-0307	9702-0301	9702-0303	9703-0301	9703-0305	9704-0301	9704-0302	9705-0301	9020-5026	9705-0307	9706-0305	2010-9026	9706-0309
	Regimen	DHA+ARA	DIIA+ARA	DIIA+ARA	DHA+ARA	DIIA+ARA	DIIA+ARA	DHA+ARA	DHA+ARA	DHA+ARA	DIIA+ARA	DIIA+ARA	DIIA+ARA	DIIA+ARA
	Gender	Hale	Hale	Hale	Male	Hale	Hale.	Hale	Hale	Hale	Hale	Male	Hale	Male

* Four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

Listing of Weights included in the Statistical Analyses

													Growth			
Gender	Regimen	Subject	Variable	Wgr1	Wgt2	Wgt3	haté	Wgt5	Ngtó	N917	Wgt8	Ngt9	Rate g/day	05_16W	Mgt_48	Vgr_57
Hale	DHA+ARA	9707-0301	Veight (g) Age (weeks pca)	1553	1980 34.3	2260 35.3	2720 36.6						41.5	3395 40.1	4950	6285
Наве	DHA+ARA	9707-0305	Weight (g) Age (weeks pca)	1755 33.9	1990	35.7	2505	2770 37.7					37.4			
НаГе	DHA+ARA	9707-0310	Veight (g) Age (weeks pca)	1620 32.7	1828	2140	3195						44.8	3585 39.7	5170 47.9	6725
Hale.	DIIA+ARA	9708-0301	Weight (g) Age (weeks pca)	1640	1880 33.7	2200 34.7	2420 35.7						38.0	3730 40.1	4835	6185 57.0
Male	DIIA+ARA	9708-0304	Veight (g) Age (weeks pca)	1680	2180 35.9			;					55.6			
Hale	DIIA+ARA	D11A+ARA 9709-0303	Veight (g) Age (weeks pca)	1470	1810								48.6			
Hale	DIIA+ARA	5050-6026	Veight (g) Age (weeks pca)	1410 34.4	1655	1900 36.4	2160	•					35.6	2630 39.7	4570	5520 57.1
Male	DHA+ARA	9712-0303	Veight (g) Age (weeks pca)	1180	1210 32.3	1450 33.4	1590 34.4						50.9	2520 40.4	3500	5010 56.4
Hale	DHA+ARA	9712-0305	Veight (g) Age (weeks pca)	1325	1505 32.5	1785 33.5	2010 34.5	2300					34.1	3030	4350	5510 57.6
Hale	DIIA+ARA	9723-0301	Weight (g) Age (Weeks pca)	1630 33.9	1728 34.9	1961 35.9	2214 36.9						28.4	3104		5986 58.9
Hale	£	1090-8696								-				3518 40.0	54 <i>97</i> 48.3	6582 56.9
Наве	Ŧ	9698-0602-		·										3177	\$220 48.1	6355 57.0
Hale	Ξ	5090-8696					٠							3858 40.0	5447 48.0	6454 57.0

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Listing of Weights Included in the Statistical Analyses

Gender Regimen												Male KH	Hale IIN	HE OF THE
Subject	_	100 de accessor	5000	100-6696	7050-6696	1000-1076	9701-0602	9701-0603	9701-0604	9701-0605	9701-0606	9702-0601	9702-0602	9703-0502
Variable		:			-									
Lack	n K	· ·			· .						•			
Wat 2										·				
Vot3	7													
Uore	416A	-4									٠			
2101	CJ 6H			•			٠							
7 6 61	Maro													
1	Wgt/													
:	Wgt8													
	Ngto.													
Growth Rate	g/day													
	Ngc_40	4355	3433	3915	3802	3317	3487 40.0	3232 40.0	3600	3405 40.0	3090	3480 40.0	3165 40.0	
	Ngt_48	5092 48.0	4979 48.1	6639 48.3	5787	\$555 47.9	5833 47.3	7°25 7'25	5215 47.9	5575 47.6	4485	5780 48.6	5060 48.3	
	Wgr_S	6383 57.0	64 57	77 52	7178	70.	807 58.	585 56.	6285 56.9	7210	5445 56.7	6530 56.6	6660 57.1	

Appendix 1

6725 56.9

* four subjects had more the 9 weights used in growth rate calculation. A complete Listing appears on the last page.

				Listing	of Weigh	Listing of Weights Included in the Statistical Analyses	ded in t	he Stati	stical A	nalyses					
٠	٠.	a- v											Growth		
J apro	Regimen	Subject	Variable	Ugt1	Vgt2	-Wgt3	HBt4	Wgt5	Wgt6	Ngt7	Wgt8	. 616W	g/day	Ngt 40	49 T GM
tale		9703-0503												4100	6740 47.4
1a l e	¥	9703-0504		:										3435	6000 48.1
Hale	<u>*</u>	9704-0502												3285	5220 48.1
Male	. · ≝	6704-0503												3400	5200
Hale	.	9705-0601						-						3200	5617 48.3
Hale	픨	9705-0602		·										3860	6227 48.0
Hale	¥	9706-0601												3152	5105 49.0
Hale	¥	9706-0602												3557 40.0	5175 47.4
Male	폴	9706-0603									-			3192	5070
Hale	至	7090-9026												3461	4225
Male	¥	9706-0605		٠										3870	6220
Hale .	· <u>¥</u>	9090-9026		• ;										4315	5975
<u>.</u>	Ŧ	9707-0601												3263 40.0	4730

6970 56.7

7315 57.7

Listing of Weights Included in the Statistical Analyses

• four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

(ppendix 1

Listing of Weights Included in the Statistical Analyses

Ngt_57	5405 57.1	5180 56.7			5220 56.9	5816 57.0	5200 55.6	6280 56.4	5815	5505 57.4		6900 56.7	97.75 57.6
85 J6A	4.84 48.4	4043			4369	4596 48.0	4165 48.6	5140 48.4	4425	46.6	7.67	5160 47.7	4820
Wgt_40	4050 40.0	3333	3400		2610 39.7	2780	2675 40.6	3175	2980	2870 39.7	3380	39.9	3060 39.9
Growth Rate 9/day				5.6	24.1	37.3	29.1	28.3	41.1	36.6	59.4	31.6	42.2
Ngr9													
Иgt8				1070 32.1									
V9t7				1080 32.0							•		
Ngt6				1060 31.9							2390		
WgtS			•	1080	2145	•	2292 38.6	1976 34.7	2406 37.9	2044 34.4	1995 36.0		
7361				1080	2000 35.7	2497 38.0	1975 37.3	1745 33.7	2198 37.3	1756 33.4	1750 35.1	2530 36.0	2645 37.0
Ngt3			ė	1070	1862	1860 36.0	1903 36.6	1555	1898 36.4	1492 32.4	1570 34.1	1840 33.1	2410 36.0
Wgt2				1050 31.3	1672 33.7	1629 35.0	1633 35.6	1366	1569	1254 31.4	1371 32.7	1555	2065 35.0
Ngt1		٠,	·	1020	1464 32.7	1473	1480 34.6	1174	1391	1050 30.6	1222 31.7	1454 31.0	34.0
Variable				Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	· Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca).	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)
Subject	9090-8026	7090-0076	9709-0505	Control 9698-0003*	1000-6696	1000-6696	9701-0003	9701-0005	9701-0008	9701-0011	2000-2026	9702-00 ⁰ ¢	Control 9702-0010
Reginen	至	₹	≚	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
Gender	Kale	Male	Hale .	Female	Female	f emale	Female	Female	Female	Female	Female	, Female	Female

. Four subjects had more the 9 weights used in growth rate calculation. A complete listing appears

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Analyses
Statistical
in the
Included i
Weights
Listing of

	~													
	Wgt_57		5640 55.0	6410 56.1	5646		5305 57.3	7225 53.4	6535 56.7		5297 56.6	4995	7250 57.3	6920
	Hgt_48	4750	4330	4780	4085 46.6		4165	9.25	5390 48.4	3800 48.4	4535	4125	5385	5490 48.9
	40 Agr_40	3210 39.6	2610 37.3	3360	2722 39.7		2740 40.0	3640 40.3	3655	2680	3320 40.7	3110 40.1	3430 40.0	3330
Growth Rate	9/day	26.4	29.5	48.3	28.3	37.9	31.7	31.6	56.0	31.1	32.6	30.2	41.2	39.9
:	Wgt9													
3	Ng18													
1	/16#									•	,		•	
7 4 2/1	0164	2130 34.3										2765		
4	Clar	1825 33.4	2220 35.3	2685 36.6								2325 36.4		•
,	7.5A	1570 32.4	1900 33.9	2445 36.0	1660 34.0	2330 38.3	2150 36.0			1810 34.6		2010 35.3		
240]	CI fix	1390	1765 33.3	2095 35.0	1490	1965 37.1	1805	1960 34.3		1585 33.6	1935 33.9	1655 33.6	3430	3330
11013	7 1 fr	1250 30.4	1590 32.3	1715 34.0	1290 32.3	1673 36.3	1610 33.7	1620 : 32.9	2185 35.0	1270 32.4	1765 33.1	1505	3430	3330
	25	1170 29.1	1420 31.4	1495	31.3	1515 35.1	1485 33.0	1525 32.3	1905	1185	1510	1465 32.0	1866 34.6	1815
	Variable	Weight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)							
	subject	9703-0002	9703-0005	9703-0008	9000-5026	9706-0003	9706-0005	6000-9026	9706-0010	9706-0013	9706-0016	9707-0003	9000-2026	9707-1006
	Regimen	Control												
	Gender	Female	female	f emal e	female	Female	f emale	Fenale	female	Female	f emale	Female	Female	Female

Appendix 1

Listing of Weights Included in the Statistical Analyses

	Wgt_57			5361 57.1		5900 56.7	5880 57.1	6230 57.0	5160 57.4	5192	6291 57.0		5121 57.0	5699 56.4
	85_16W	4734		4110		4700	4450	4560	7.87 78.4	4145	4795		3979 48.0	5185 47.4
	Vgt_40	. 2910 40.6		2582 39.3		2975 39.6	2930	3030 39.7		3170 39.7	3787		2891 40.0	3135
Growth	g/day	27.2	4.3	33.1	30.0	32.3	25.6	28.4	24.0	42.7	34.7	28.7	55.9	29.7
	Ngt9													\
	Мөтв													
	Ngt7													
	Hgt6			•									-	
	HgtS					2200 36.3	1695 33.1			2625 36.6			2020 34.9	
	716N	2050 36.9		2180 36.3		1945 35.6	1490	1790	1890 35.1	2320	2140	1720 33.7	1630 33,1	
	Ngt3	1850 35.4		1860	2400 34.7	1665 34.6	1290	1585	1740	2075	1890	1420 32.7	1520 32.4	2450
	Wgt2	1600 34.4	970.0 31.0	1605	33.7	1425	1145	1358	1520 33.4	1740 33.6	1650 31.1	1240	1310 31.4	2110 35.7
	Wgt1	1410	940.0 30.0	1380	1980 32.7	1175	972.0 29.1	.1203	1300					1790 34.4
	Variable	Weight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca) [.]	Weight (g) Age (weeks pca)	Height (g) Age (Heeks pca)	Weight (g) Age (weeks pca)		Weight (g) Age (weeks pca)			
	Subject	9708-0001	9708-0003	9708-0008	9709-0002	5000-6026	Control 9712-0005	9212-0006	9743-0003	9746-0001	9698-0004	9000-8696	6000-8696	7050-8696
	Regimen	Control	Control	Control	Control	Control	Control	Control	Control	Control	DIIA	DIIA	DHA	DHA
	Gender	female	f emal e	female Control	Fenale	Feinale	Female	Female	Female	Female	Female	female	Female	female

* Four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

Appendix 1

Listing of Weights Included in the Statistical Analyses

	•	े चर											Growth Rate			
			Variable	Wgt1	Hgt2	Wgt3	Ngré	Wgr5 4	Wgt6	Wgt7	Hgt8	Hgt9		05 ⁻ 16H	Wgt_48	V9t_57
Gender Female	Regimen DHA	2000-6696		1313	1477	1669 34.9	1929	2380 36.9					36.9	39.7	27.77	7093 56.7
Fenale	. Oila	1000-0026	Weight (9)	1580 32.4	1820	2050 34.3	2295 35.3	2500 36,3					34.5	3210 40.1	5110 48.1	6300 57.1
	·DIIA	9701-0001	Height (9) Age (weeks pca)	1300	1356 34.0	1586 35.0	1924 36.0	2125 · 36.6					34.2	2910 39.6	4325 48.0	\$625 \$7.0
Female	DHA	9000-1026	Weight (9) Age (weeks pca)	1108	1261	1441	1671 33.7	1897 34.7					28.4	3020 39.7	4855	6040 56.4
Female	DHA	9701-0012	Weight (g) Age (Weeks pca)	1674	1928	2151	2311 37.6	2685 39.6	2685 39.6				30.1	2685 39.6		
female	DIIA	9701-0014	ueight (g) Age (weeks pca)	1422	1631 34.9	1858 35.9	2455 37.9						37.2	39.9	4605	5140
Female	DHA	9702-0001	Weight (g) Age (Weeks pca)	1780	2115	2390	3000						35.8	3850 40.0	5610 49.6	6600 57.0
Female	DIIA	9000-2026		1850	2005	2650 39.6	2650 39.6						27.3	2650 39.6	4450 48.4	6020 56.4
Female	DifA	9702-0007	Height (g) Age (Heeks		1459 32.1	1780 33.6	1965	2035					29.6	· !		
Female	e DHA	9702-0008		1605	1930	3540 39.6	39.6				٠		51.3	39.6	5920	7820
female	e DIIA	\$703-0003	Weight (g) Age (weeks	1255	1355	1535	1845 37.1	2150 38.1					34.8	39.4	4130	5010
Female	e DIIA	9703-0004		1170	1340	1550	1795 35.3	2225 37.0					33.9	39.4	4610	57.1
Female	e DHA	9703-0009		1570	1830	2095 35.1	2395	2655 37.9					34.0	40.4	7.87	58.0

Appendix 1

Listing of Weights included in the Statistical Analyses

Variable Hgt1 Hgt2 Hgt3
35.0 1490
31.7 1590 34.7
1630 34.7
U1
2130 33.6
₹ 4
2850 38.7
ô. ₩.
1955 34.6
2110 35.7
1755 32.0
2015 36.4

* Four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

Appendix 1

Listing of Weights Included in the Statistical Analyses

	Ngt_57	5250 57.1		5340 56.9	5400 57.3	5160 57.4	6582 56.7		6979 57.3	8341 57.0	6420 57.1	6525 56.4	6270 57.3	6955
	Mgt_48	3980 48.1		4250	4140	4540 48.4	5348		5107	6752	4930	5115 48.4	5045	4935
•	Ngt_40	2940 40.1		2425 39.7			3530	3241	3177	4059	3340	2930	3600	2680 39.9
Growth Rate	g/day	24.9	56.4	27.3	33.5	29.7	37.1	31.8	28.9	35.1	31.9	37.8	38.3	29.8
	Hgt9													
	Wgt8													
	Hgt7													
	Wgt6										2480 35.6	,		
	Hgt 5	1685 34.0			1930				1788 35.0	2330	2220 34.1	37.4	2728 36.1	2227 37.7
	Mg14	1470 · 33.0		1650 35.7	1800 35.7	1975 35.1	2380 34.9	2260 35.7	1536 34.0	34.9	2035	2210 36.4	2456 35.3	1982 36.7
	Wgt3	1270 32.0	1430 34.7	1440	1470	1845 34.1	33.6	2130 34.6	1283 33.0	1688 33.9	1885 32.3	1887 35.4	2113	1590
	Ngt2	1120 31.0	1230 33.7	1230	1170	1570	1690	1870	1122	1542 32.9	1525	1609 34.4	1859	1427
	. Ngt 1	987.0 30.0	1060	1082 32.7	1000		1550 31.6		31.0			1398	1720 32.3	1469
	Variable	Weight (g) Age (weeks pcb)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks.pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)					
· .	Sub Ject	9712-0001	9712-0002	9712-0007	1000-5746	9743-0002	9698-0001	9698-0002	7000-6696	5000-6696	9700-0002	9701-0002	9701-0006	9701-0007
	Regimen	DHA	DIIA	DIIA	DIIA	DITA	DHA+ARA	DIIA+ARA	DHA+ARA	DIIA+ARA	DHA+ARA	DHA+ARA	DIIA+ARA	DIIA+ARA
	Gender	Female	Female	female.	female	Female	Female	female	f emale	. Female	Female	Female	female	female
				•										

* four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

Appendix 1

Listing of Height's Included in the Statistical Analyses

, -	10 18H	5550 57.4	7500 56.9	.5340 56.4	6410 57.6	5420 57.3	6650 56.7	5850 56.7	6800	6640 57.0	6894 56.9	\$050 \$7.0	7655 56.7
B / 40/17	5545 48.4	4545	6220 48.4	4300	4680	4250 48.1	5400 48.1	4190	5150 48.0	. 0.87 48.0	5107 48.4	4000	6550 48.6
U7 LON	3500		4190	3025	2905 39.9	3030 41.0	3600	2850	3110	0.05 0005	3376 39.9	2600 40.4	4100 40.1
Growth Rate 9/day	34.6	35.6	39.9	29.9	6.02	28.9	49.1	27.4	26.7	30.0	49.8	22.1	34.5
Vgt9												1380 33.4	
Wgt8												1350 33.3	
V9t7	,								2070 34.9			1265 33.0	
. 916H	2759 37.7		,	٠				2240 36.6	1780 33.9			1310 32.7	
WgtS	2433 36.1		2400 34.1	2710 38.0	2655 37.3	1955 35.3		2030 35.7	1570 32.9			1310 32.4	
716M	2234		2155	2525 37.0	2595 37.0	1680 34.3	2880 37.0	1880 35.0	1370		2920 37.7	1280 32.1	2060 34.9
Wgt3	1978 34.4		1820 32.1	36.0	2230 36.0	1450	2560 35.9	1620 34.0	1200		36.6	1185	1685 33.7
Wgt2	1703 33.4	2019	1488	2060 35.0	35.0	1255 32,1	2200 35.0	1495	1090 30.0	1840 33.4	2260 35.7	1120 31.4	1515 32.9
Wgti	1488 32.3	1841 33.0	1293	1895	1725 34.0	31.3	1865	1390	960.0	1690	1760 34.4	1075 31.1	1290 31.7
Variable	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Veight (g) Age (неeks pca)	·Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Weight (g) Age (weeks pca)	Veight (g) Age (weeks pca)	Veight (g) Age (weeks pca)
Subject	9701-0010	9701-0013	9702-0003	9702-0005	6000-2026	1000-5026	9000-£026	9703-0007	2000-5026	DIIA+ARA .9704-0003	9705-0003	*5000-5026	9706-0001
Cedi Ced	DHA+ARA	DHA+ARA	DHA+ARA	DIIA+ARA	female DIIA+ARA	DHA+ARA	DIIA+ARA	DIIA+ARA	DIIA+ARA	DIIA+ARA	DIIA+ARA	DIIA+ARA	DHA+ARA
	remate	f emal e	Female.	Female	female	Female	f emal e	Feinale	Female	Female	f eina t e	· Female	Female

* Four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

Appendix 1

Listing of Weights Included in the Statistical Analyses

•	1/9t_5	57.1	5362 56.9			5319	6,667 57.9	\$653 \$7.0	5731 57.0	5986 57.0	5674 56:7	6355 57.0	7603 57.6	8450 57.7
:	0277 85 16M	48.1	4010	4880	5972	4213	5234 48.7	4638	4766	4823	4482	4738	5617 48.4	5630 47.7
67	0,-,6,,	40.1	2680 39.9	3546 40.0	3518 40.0	3390	3383	3646	2582	4284 40.0	3716 40.0	3660 40.0	3433 40.0	3884 40.0
Growth Rate 9/day	37.2		30.1											
Wat9	•				,									
Hgtß														
Vgt7														
Ngt6								٠						
Wgt5			2110 36.7											
Ngtć	2475	7.	1814 35.7											
Wgt3	1990 15.8		1597 34.7											
Vgt2	1780	? ?	14.29 33.7											
Wgt1	1590	}	1249 32.7											
∶.	(8)	ì	pca)		•	÷								
Variable	Weight (g)	200	Veight (g) Age (weeks pca)											
Subject	9712-0008		2000-97/6	9698-0501	20¢0-8696	9698-0503	9696-0504	5050-8696	9699-0601	7090-6696	9699-0603	7090-6696	5090-6696	9701-0501
Gender Regimen	DHA+ARA		DHA+ARA	Ξ	Ŧ	¥	<u>*</u>	Ĭ	¥	돌	≚	Ŧ	Ξ.	Ŧ
Gender	Female		Fema (e	Female	f ema l e	f ета l е	Feinale	female	female	f emal e	Female	female	f emal e	female

* Four subjects had more the 9 weights used in growth rate calculation. A complete listing appears on the last page.

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Listing of Weights Included in the Statistical Analyses

														Growth			
Gender	Regimen	Subject	Variable		Wgtl	Wgt2	Wgt3	Ngr4	WgtS	Vgt6	Vgt7	WgtB	Vgr9	Rate g/day	Výt 40	Ngt 48	Wat 57
Female	WH	9701-0502										٠				5420	6700
f emal e	¥	9701-0503		• •											3430 40.0	4265	5085
female 	폴	9701-0504														5020	6230
f emal e	Wi	9702-0501														5540	6630 56.7
Female	₹	9702-0502		٠,	,	·.										5310	6800 57.1
female	Ŧ.	9702-0503														3430	4530
f enia l e	돌	9702-0504	•								•					5390 48.0	6270
female	Ŧ	9702-0505											•			4210	5320 57.0
female	≝	9702-0506														6040 48.9	7,78
female	Ħ	9702-0507												٠		4050	4940 57.4
Female	¥	9702-0508									•					4240	5860 57.0
Fenjale	¥ .	9703-0501										-				5260 48.1	6360 57.1
Female	¥	9703-0505											٠			5,760	7670

Listing of Veights Included in the Statistical Analyses

a Tabout	. naminas napoa.	Subject	Variable	Hart	1100	2007	71-11	· :	:				Growth Rate			
					3 - Ru	258	*15n	Ng C	Vgt6	Ngt 7	Hgt8	Vgt9	g/day	Wgt_40	Wgt_48	Wgr
remale IIA	Ĭ	9/03-0206												3405	6170	572
Female	₹	9703-0507	•												6.74	26.
7		1030 /020												3085	5090 48.0	655 56.
		1000-5076												3194 40.0	4700	588 57.
Female	.	9705 - 0501	·				,							3120 40.0	4500 48.1	570 57
Female	· .	9705-0502												4080	6327 48.3	734.
f emale	¥ :	9706-0501												3396 40.0	5000	664. 58.
f emale	¥ :	9706-0502							•					3041	4315	5525 57.6
Female		9707-0501												0.05 40.0	5515 47.9	6776 56.6
remale.	E :	2050-7076												3419 40.0	5500	7080 57.1
Female		9707-0503												3773 40.0	5785 47.9	7675 56.9
Female	₹	9707-0505												3716 40.0		•
female		9708-0501								٠				3688 40.0	5440 48.1	6890 57.6
f ema l e	¥	9708-0502														5950 57.4

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	40 Hgt_48 Hgt_57	5165	4 5660 6705 0 48.4 57.4	5800 47.7		5 5205 6100 0 48.0 56.9	10.0	, 4590 , 48.3	
Growth Rate	_	297.	3864 40.0	383	355(3719	3195	3190	3058
G B B	-								
•	Hgt9								
	Wgt8								
	Ngt7								
	Ngt6						•		
:	HgtS								
;	Wgt4				,				
	Wgts		·	,					
:	Wgt2				-				
	Hgt1	4		٠.					
	Variable			·		·			
·	Subject	9708-0503	9708-0504	9708-0505	9709-0501	9709-0502	9709-0503	9709-0504	9050-6026
	Regimen	¥	₹	H.	. ·	Æ	≚	Ŧ.	歪
	ender	emale	emale	emale	emale	emale	emale	femal e	emale

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Listing of Veights Included in the Statistical Analyses

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Listing of Weights included in the Statistical Analyses

k te	-	9	ø	-
Growth Rate B 9/day	26.1	39.6	5.6	22.1
Wgt1				1670
Wgt17 Wgt18				1680
NgC10 NgC11 NgC12 NgC13 NgC14 NgC15 NgC16				1640 34.6
JBt 15				1585 34.4
1911gr				1565 34.3
19t13 L				1515 34.1
9t12 v		2075 34.0		1510 34.0
9t11 W	1465 33.0	2030		1450 33.9
gt 10 W	1448 32.9	1994		1440
Vgt9 V	1433 32.7	1938 33.6		1380 33.4
Ngt8	1402 32.6	1882	1070 32.1	1350
Vgt7	1369 32.4	1858 33.3	1080 32.0	1265 33.0
Vgt6	1330 32.3	1811 33.1	1060 31.9	1310 32.7
Wgt5	1294 32.1	1778 33.0	1080 31.7	1310 32.4
Ngré	1291 32.0	1732 32.9	1080 31.6	1280 32.1
Vgt3	1245 31.9	1699 32.7	1070 31.4	1185
Ng t 2	1221 31.7	1675 · 32.6	1050 31.3	1120 31.4
Hgtl . Hgt2	1245 31.6	1649 32.4	1020	1075
	pca)	pca)	pca)	pca)
Variable	Hale Control 9712-0301 Weight (9) Age (weeks pca)	9707-0307 Veight (g) Age (weeks pca)	Femate Control 9698-0003 Weight (g) Age (weeks pca)	Female DIIA+ARA 9705-0005 Weight (g) Age (weeks pca)
Gender Regimen SUBJECT Variable	9712-0301	9707-0307	9698-0003	9705-0005
Regimen	Control	DIIA	Control	DHA+ARA
Gender	Hale	Hale	Female	Female